

1978

College of Technology, Kevin Street : Prospectus 1978-1979

City of Dublin Vocational Education Committee

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COLLEGE of TECHNOLOGY

**COLAISTE
TEICNEOLAIOCHTA**

KEVIN STREET DUBLIN 8

Prospectus 1978/79

**CITY OF DUBLIN
VOCATIONAL EDUCATION
COMMITTEE**

CALENDAR

AUTUMN TERM

1978—SEPT. Monday 4th

Monday 11th

Monday 25th

OCT. Wednesday 4th

Friday 27th

DEC. Wednesday 20th

SPRING TERM

1979—JAN. Monday 8th

MAR. Wednesday 14th

APRIL Tuesday 10th

SUMMER TERM

APRIL Monday 23rd

JULY Wednesday 11th

Friday 13th

COLLEGE CLOSURES AS FOLLOWS

1978—OCT. Wednesday 4th
Monday 30th
Tuesday 31st

NOV. Wednesday 1st

DEC. Friday 8th

1979—MAR. Monday 19th

MAY Thursday 24th

JUNE Monday 4th
Thursday 14th

Commencement of Session
Interviews/Registration for Wholetime
day Courses commence.

Evening Courses open for Interviews/
Registration.

Wholetime third-level Courses
commence, except where otherwise
arranged.

Evening Courses commence, except where
otherwise arranged.

Votive Mass to mark the commencement
of the Academic Year.

Final date for registration for all
students.

Presentation of Awards, Christmas Term
closes.

Commencement of Spring Term.

Closing date for Registration for
College Summer Examinations.

Spring Term Closes.

Termination of Evening Classes except
where otherwise arranged.

Summer Term commences.

Closing date for Registration—
College Supplemental Examinations.

Session closes.

Votive Mass—Day Classes closed
National Holiday—All classes closed.
Mid-term break—All classes closed.

Church holiday—All classes closed.

Church holiday—All classes closed.

National holiday in lieu of St. Patrick's
Day—All Classes closed.

Church holiday—All classes closed.

National holiday—All classes closed.
Church holiday—All classes closed.

PROSPECTUS 78/79

CITY OF DUBLIN
VOCATIONAL EDUCATION
COMMITTEE

COLLEGE OF TECHNOLOGY

KEVIN STREET
DUBLIN 8

Telephone: 757541-6

755700 (Pleasants Street)

Principal: HUGH de LACY,
B.E., B.Sc., C.Eng., F.I.E.E.

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COURSES

SCIENCE AND RELATED COURSES

Diploma in Applied Sciences	Wholetime	Ref. WSAD	20
University of London B.Sc. (General)			
Degree	Wholetime	Ref. WSD	20
	Part-time	Ref. PSD	21
Advanced Science Courses	Part-time	Ref. PSI	21
Graduateship of the Institute of Physics	Part-time	Ref. PSIP	21
Technicians' Diploma Course in			
Applied Science	Wholetime	Ref. WAS	22
Home Economics Teachers' Course	Evening	Ref. S8	23
Science Laboratory Technicians' Course	Part-time	Ref. PSL	24
Glassblowing	Evening	Ref. G1	24
Diploma in Dietetics and Nutrition	Wholetime	Ref. WBD	26
Diploma in Food Science	Evening	Ref. S6	26
Course in Professional Photography	Part-time	Ref. PSP	27
Advanced Course in Professional			
Photography	Part-time	Ref. PSP4	27
Photographic Technicians' Certificate	Part-time	Ref. PSPT	28
Graduateship of the Royal Institute of			
Chemistry	Part-time	Ref. PSIC	29
Courses for Medical Laboratory			
Technicians	Wholetime	Ref. WML	29
Advanced Course in Medical Laboratory			
Sciences	Block Release	Ref. WAML	31
Special Courses for Fellowship of the			
Institute of Medical Laboratory			
Sciences	Evening	Ref. S10	31
Course in Animal Technology/Nursing	Evening	Ref. S9	31
Institute of Meat	Evening	Ref. S11	33
Course in Plastics	Part-time	Ref. PCP	33
Courses for Ophthalmic Opticians and			
Dispensing Opticians	Wholetime	Ref. WSO	33
Associateship of the Institute of Brewing	Part-time	Ref. PBA	34
Certificate for Medical Physics and			
Physiological Measurement Technicians	Part-time	Ref. PBE	35
Dental Craftsman's Course	Part-time	Ref. PSDC	35
Mathematics Courses	Evening	Ref. M1 to M6	36-38
Graduateship of the Institute of			
Mathematics and its Application	Evening	Ref. M7	38

LANGUAGES:

Intensive Course in Technical French and Technical German	Part-time	Ref. GSAF & GSAG	39
Evening Courses in Modern Languages, German, French and Russian.	Part-time	Ref. L1/2/3	39

ELECTRICAL, ELECTRONIC AND TELECOMMUNICATIONS ENGINEERING & RELATED COURSES

Honours Diploma Course in Electrical Engineering	Wholetime	Ref. SEE	40
Technician Engineering Diploma Course —Electrical Engineering	Wholetime	Ref. WEET	40
Electrical Technicians' Course	Part-time	Ref. PET	42
	Block Release	Ref. SEBT	43
	Evening	Ref. E1 1/2/3/4	43
Electrical Engineering	Evening	Ref. E5.1	44
	Evening	Ref. E5.2	44
Technician Engineering Diploma Course —Telecommunications & Electronics	Wholetime	Ref. WRTT	45
Telecommunication Technicians' Evening Course	Evening	Ref. R6	45
Radio-Electronics Technicians' Course	Wholetime	Ref. WRS	47
Radio, Television & Electronics Technicians' Course	Evening	Ref. R5	48
Industrial Electronics for Electricians	Evening	Ref. R7	49
Radio, Television & Electronics Mechanics' Course	Part-time	Ref. PRM	49
Marine Radar Maintenance Certificate Course	Wholetime	Ref. WRR	50
Marine Radio—Electronic Officers' Course	Wholetime	Ref. WRO	50
Post Office Engineering Technicians'	Block Release	Ref. SRPO	50

COURSES FOR APPRENTICES AND CRAFTSMEN

Apprentice Electricians	Block release	Ref. SESB	52
	Day release	Ref. PEI	52
Electrical Installation & Maintenance	Block release	Ref. SEM	52
Electrical Installation Work	Block release	Ref. BESB	53
Electrical Installation Work	Block release	Ref. SEAS	53
Course for Personnel in the Electrical Industry	Evening	Ref. T1. 1/2/3/4	53
Cable Jointing	Evening	Ref. T2.1	54
Electrical Technicians' Certificate (Part III)			
City & Guilds of London Institute	Evening	Ref. T3. 1/2	54
Apprentice Electricians in the Aircraft Industry	Sandwich	Ref. SEAL	56
Cinema Apprentices	Day release	Ref. PRC	56
Diploma in Bakery Production and Management	Wholetime	Ref. WBT	56
Bakery Practice	Day release	Ref. PSB	57
	Evening	Ref. B1.1	57
Confectionery Decoration	Evening	Ref. B1.2 & B1.3	57
Courses in Physical Education			

STAFF

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Hugh de Lacy, B.E., B.Sc., C.Eng.,
F.I.E.E.

VICE-PRINCIPAL

George L. Latchford, B.E., B.Sc.,
C.Eng., M.I.E.I.

Department of Mathematics

HEAD

John M. Forde, B.E., C.Eng.

ASSISTANT HEAD

Thomas Ambrose, M.Sc., Ph. D.
Brendan O'Shea, M.Sc., Ph.D.

DEPARTMENT SECRETARY

Miss Geraldine McDonnell

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M. Downes, B.Sc.
R. G. Flood, M.Sc.
T. Garavaglia, M.A., Ph.D.
B. Goldsmith, M.Sc.
J. Jordan, M.Sc., A.T.O.
I. A. Kinsella, M.Sc., F.I.S.
Ann Murphy, B.Sc., H.Dip.Ed.
P. O. Gallchobair, B.Eol., A.T.O.
M. V. O'Neill, B.Sc.
P. F. Walsh, B.Sc.

PART-TIME LECTURERS

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E. D. Doyle, A.M.I.E.R.E.
J. C. Frain, M.Sc.
B. Gunning
A. Hegarty, B.Sc.
J. Langan, B.Sc.
D. J. McCarthy, B.Sc.
B. O'Grady, B.Sc.
Marie Reilly, M.Sc.
Anne Scott-Hayward, B.A., B.A.I.
B. P. Sweeney, M.Sc.

Department of Physics

HEAD

J. Kieran Taffe, M.Sc., M.Inst.P.,
M.B.A., H.Dip.Ed., Dip. in Prod.,
Barrister-at-Law

ASSISTANT HEADS

Kevin P. Culliton, F.A.O.I.
Henry W. K. Hopkins, M.A., D.Phil.

DEPARTMENT SECRETARY

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T. W. Cantwell, B.Sc., Ph.D. M.Inst.P.
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T. P. Grennan, B.Sc., Ph.D.
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D. C. Hickey, B.Sc., Ph.D.
M. Hussey, B.E., M.S., Ph.D.,
M.Inst.P., M.I.Biol.
K. V. Kamath, M.Sc., Ph.D., M.Inst.P.
J. F. Malone, B.Sc., M.I.Biol Ph-D.,
A. Mion, B.Sc.
M. A. Mullet, B.Sc., H.Dip.Ed.,
Grad.Inst.P., C.G.L.I. (Photography)
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M.Litt., M.Inst.P.
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M.Inst.P.
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E. P. Tuffy, B.Sc., M.Inst.P., M.Ed.,
C.G.L.I. (FETC)
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S. Coonan, C.G.L.I. (Photography)

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Angela O'Neill, F.A.O.I.

Gerda W. Teljeur

F. Walker, F.A.O.I.

TECHNICAL STAFF

M. Aughey J. Keogh
Yvonne Costello Ann Murphy
D. Hayes J. Robinson

Department of Chemistry & Biology

HEAD

Eamonn J. Rothery, B.Sc., C.Chem.,
F.R.I.C., F.I.C.I., M.I.Biol.I.

ASSISTANT HEADS

Diarmuid A. MacDaeid, M.Sc., Ph.D.
C.Chem., F.I.C.I., M.R.I.C.
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M.I.Biol.

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M.N.S.
Valerie Dowding, M.A., Ph.D.
Joan Forsdyke, B.Sc., Ph.D.
J. Gray, B.Sc.(Agric.), L.I.Biol.
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F.I.C.I.
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M.I.C.I.
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Dip.Ind.Microb.
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L.R.C.S.I., D.P.H.
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N. Russell, M.A., Ph.D., M.I.C.I.
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Elizabeth Sweeney, B.Sc.
J. Tighe, M.Sc., Ph.D.
B. T. Woods, B.Sc., Ph.D., M.I.C.I.
B. P. Woods, M.Sc., M.I.C.I., M.I.Biol.

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C. Healy
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H.Dip.Ed.
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Deirdre O'Sullivan
R. Sivaramakrishnan, Ph.D.
H. Stein
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J. Treacy, B.Sc.
O. Wilson
P. Wilson, M.R.C.V.S.
E. Winstanley, Ph.D.
E. C. Wright

Staff

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Genevieve Duffy	S. Magee
Kathleen Johnson	Kathleen Walsh
Mary Kavanagh	Daireen Ward
Ailish Kennedy	D. White
Breege Keenan	P. Whyte
R. Leydon	

Department of Electrical Engineering

HEAD

Thomas Short, C.Eng., Ph.D., M.I.E.E.

ASSISTANT HEADS

John J. Farrell, C.Eng., M.Sc., M.I.E.I.
A.M.I.E.E.
Jonathan C. Fisher, B.A., B.A.I., H.Dip.Ed.
A.M.I.E.E., Ph.D.

DEPARTMENT SECRETARY

Miss Maureen Beirne

STAFF LECTURERS

H. Baher, M.Sc.
J. F. Colgan, C.Eng., M.Sc., A.M.C.T.,
M.I.E.E., M.B.A.
J. Flood, B.E., M.Sc.
W. T. C. Grimson, B.A., B.A.I., M.Sc.
M. O'Halloran, B.E.(Elect.), A.M.I.E.E.
K. Sullivan, Dip.E.E., M.Sc., M.I.E.I.

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P. J. Beevor, B.Sc.(Eng.), Ph.D., A.C.G.I.
P. Cadden, A.M.I.E.E.
C. Cullinane, A.M.I.E.E.
R. Hayes, Dip.E.E., M.Sc.
T. McGibney, A.M.I.E.E.
B. McKenna, Dip.E.E., A.M.I.E.E.
W. O'Dwyer, A.M.I.E.E.
S. Ruttle, B.A., B.A.I., Ph.D.
J. Ryan, B.Sc., Dip.E.E.
J. R. Wormold, C.Eng., M.I.Mech.E.

TECHNICAL STAFF

M. Feeney	L. Quinn
T. Kelly	T. Ruane

Department of Telecommunications Engineering

HEAD

Bartholomew J. O'Connor, C.Eng.,
M.I.E.R.E.

ASSISTANT HEADS

Christopher Cowley, C.Eng., M.I.E.R.E.,
A.M.I.E.E.
Matthew Rice, C.Eng., M.I.E.R.E.

DEPARTMENT SECRETARY

Miss Joan Burke

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F. M. Brennan, C.Eng., M.I.E.R.E.,
A.M.I.E.E.
C. Bruce, Dip.Tech.Eng., C.Eng., M.I.E.E.
T. Clancy, Grad.I.E.R.E.
C. Downing, B.E., M.Eng.Sc., M.I.E.I.
P. Fannin, M.Sc., A.M.I.E.E.
B. Foley, B.E., M.E.E., A.M.I.E.E.
M. Gara, C. & G. F.T.C.(Telecom.)
D. Harley, T.Eng.(C.E.I.), F.S.E.R.T.,
P.M.G.Cert., Radar Cert.
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T. Lawless, F.S.E.R.T., T.Eng.(C.E.I.),
C.G.L.I.(F.T.C.)
J. Mahon, T.Eng.(C.E.I.), F.S.E.R.T.,
P.M.G.Cert., Radar Cert.
T. Murray, M.Sc., B.E.
P. Murray, M.I.E.R.E.
T. P. O'Brien, M.I.E.R.E.
S. O'Donnell, M.I.E.E.E., F.T.C.(C.G.L.I.)
B. A. O'Sullivan, M.Sc., Ph.D.
J. Russell, P.M.G.Cert., Radar Cert.
E. G. Seale, Grad.I.E.R.E.

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D. Hogan, C.Eng., M.I.E.E.
A. Kelleher, B.E., C.Eng., M.I.E.I.
J. J. Langford, B.E., M.I.E.E.
J. McGrath, C.Eng., M.I.E.R.E.

Staff

K. O'Donnell, M.Sc., M.I.E.R.E., C.Eng.,
M.I.E.I.
M. Rogers
S. Ruttle, B.A., B.A.I., M.Sc., Ph.D.
S. Shine, B.E.
P. A. Tobin, Dip.Eng.(EI)
P. Wade, C.Eng., M.I.E.R.E.

TECHNICAL STAFF

G. Betts
A. Breen
I. Beckett
P. Hanaphy
M. O'Hanlon
J. Reilly
E. Skelly

Department of Languages and Industrial Studies

HEAD

Miss Kathleen M. Tierney, M.A.

ASSISTANT HEAD

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DEPARTMENT SECRETARY

Miss Gerardine McDonnell

STAFF LECTURERS

F. Bonaffé Ingénieur, E.C.L.
Miriam Broderick, B.A., H.Dip.Ed.,
Dip.Sup.Ling.Appl.
D. Campbell, M.A.
C. Farren, A.C.I.S., A.C.C.A., A.C.P.A.,
A.I.I.S.
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D.P.A.
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Dip.M., M.M.I.I.
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M. Mulreany, M.A., H.Dip.Ed.

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Dip. in Lib.
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Janet Ryan, M.A., H.Dip.Ed.
D. Stark, B.A., Barrister-at-Law

TECHNICAL STAFF

F. Loftus

Mechanical Workshops and Drawing Unit

LECTURERS-IN-CHARGE

Patrick Connell (Workshops)
David Naessens (Drawing)

STAFF LECTURERS

B. Goulding
R. Hatton

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J. Byrne
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P. Dunne
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J. Mulligan
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J. Todd
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TECHNICAL STAFF

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B. Hogan
N. Masterson

Bakery

STAFF LECTURERS

Daniel T. Carey, N.B.Dip., Tech.Dip.,
C. & G., M.I.I.B.
D. O'Brien, N.B.Dip., Full Tech.Dip.
C. & G. (Baking), M.I.I.B.

PART-TIME LECTURERS

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L. Graham
J. Humphries
Claire McInerney

TECHNICAL STAFF

T. Ahern

Staff

Department of Electrical Installation

HEAD

M. Farrell, C.Eng., M.I.E.E., M.I.E.I.

ASSISTANT HEAD

Desmond McManus, F.T.C.(E.E.P.),
C. & G.

LECTURER-IN-CHARGE

Ignatius Tighe

DEPARTMENT SECRETARY

Mrs. Maureen Holland

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E. Barber, Final(E.E.P.), C. & G.

J. Boyle, T.Eng.(C.E.I.), M.I.T.E.,
F.T.C.(E.E.P.), C. & G.

E. Brady, F.T.C. (E.I.W.), C. & G.

R. Byrne, B.A., F.T.C.(E.E.P.), C. & G.
H.Dip.Ed.

G. Caffrey, F.T.C.(E.E.P.), C. & G.

J. Cahill, T.Eng.(C.E.I.), M.I.T.E.

T. Colohan, T.Eng.(C.E.I.), M.I.T.E.,
F.T.C.(E.E.P.) and (E.I.W.), C. & G.

P. Cosgrave, F.T.C.(E.E.P.), C. & G.

H. Dalton, F.T.C.(E.E.P.) C. & G.

J. Davis, F.T.C.(E.E.P.), C. & G.

T. Dillon, B.A., F.T.C.(E.E.P.), C. & G.,
H.Dip.Ed.

M. Farrelly, Tech.(C.E.I.), M.S.E.R.T.,
C. & G.

T. Grandison, M.I.T.E., F.T.C.(E.E.P.),
C. & G.

V. Kenny, T.Eng.(C.E.I.), M.I.T.E.

S. Lyons, M.I.T.E., Final (E.E.P.), C. & G.

M. Maher, T.Eng.(C.E.I.), M.I.T.E.,
F.T.C.(E.E.P.), C. & G.

R. McCann, B.A., Final(E.E.P.), Dept. of
Ed., H.Dip.Ed.

R. McCarthy, F.T.C.(E.E.P.), C. & G.

G. Murphy, B.A., M.Ed.(Hons.), F.T.C.
(E.E.P.), C. & G., A.M.I.T.E., H.Dip.Ed.

J. Nolan, T. Eng.(C.E.I.), M.I.T.E., F.T.C.
(E.E.P.), C. & G.

K. O'Connell, F.T.C.(E.E.P.), C. & G.

J. O'Donnell, B.A., T.Eng.(C.E.I.), M.I.T.E.
H.Dip.Ed.

S. Sludds, B.A., F.T.C.(E.E.P.), C. & G.,
H.Dip.Ed.

W. Traynor, F.T.C.(E.E.P.), C. & G., T.Eng.
(C.E.I.), M.I.T.E.

PART-TIME LECTURERS

J. Broe

J. Brown

J. Byrne

B. Casey

J. Donoghue

P. Donoghue

C. Harrington

G. Hartigan

T. Henry

TECHNICAL STAFF

J. Butler

T. Clerkin

J. Comerford

P. Harding

T. Mahon

E. Meagher

T. Murphy

F. S. O'Connell

G. O'Gorman

W. B. O'Neill

M. Roberts

L. Trundle

J. P. Walsh

L. Manning

N. Masterson

E. Murphy

Physical Education Unit

LECTURER-IN-CHARGE

S. Byrne, B.A., Dip.P.E., Dip.Ed.
London University.

R. Bushell

A. Byrne

N. Daragh

J. Delaney

J. Donnelly

S. Doyle

R. Greenlee

D. Levey

D. McCarthy

H. McNamara

P. Mooney

P. Murphy

M. Nunan

Chaplains

CATHOLIC

Fr. P. Dunne, S.J. Fr. B. Murray, S.J.

Fr. T. E. O'Keeffe, S.J.

CHURCH OF IRELAND

Rev. W. J. Smallhorne

Administration

SECRETARY/REGISTRAR

Miss Moira O'Donovan

Secretary/Registrar's Office

SENIOR CLERKS

Katherine MacGabhann

Francis Hayden

Brian Tuohy

SECRETARY TO THE PRINCIPAL

Miss Marie Healy

SECRETARY TO REGISTRAR

Miss Fiona Farrell

Staff

CLERICAL STAFF

David Earley	Mary O'Dwyer
Rita Hogan	Marie Spring
Robert Kelly	Kieran Maguire
Ann Manley	Brid Molloy

TECHNICAL STAFF

Elma Flanagan	C. Ingle
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LIBRARIAN

Cáit Ní Laoithe

MAINTENANCE SUPERVISOR

H. J. Loftus

NOTICES TO STUDENTS

Students are expected to make themselves aware of the following regulations of the College.

ADMISSION TO COURSES AND ENROLMENT

1. Enrolment for courses for the session 1978/1979 will not be affected before September 4th, 1978, but applications for admission should be made before Friday, 30th June, 1978.

2. In the session 1978/1979 the latest date for admission of students to classes commencing in the first term is October 27th, 1978. Only in exceptional circumstances will applicants be admitted after that date.

3. Intending students should note the statement on Entry Requirements for admission to the College on Page 18. Before acceptance of an application for admission to classes or courses, the applicant may be required to attend in person for interview and the College must be satisfied as to his/her ability to benefit from the proposed classes or courses. Approval in this respect must be endorsed on the enrolment form by the Principal, Vice-Principal, appropriate Head of Department or the teacher designated for the purpose. The College may require an applicant to submit to and pass an entrance test and/or a suitability test before admitting him/her to any class or course.

4. Fees must be paid in full on enrolment. Only in special circumstances will payment by term be permitted.

5. The sole proof of enrolment in any class or course in the College is the Official Receipt for the class or course fees paid.

The Official Receipt must be shown to the class teacher on first attendance at

each class of the course. Teachers are authorised to refuse admission to classes of students who do not show their Official Receipt.

6. Fees are not refundable except where a class or course does not form.

7. On first enrolment new students will be issued with an Identity Card. For this purpose and for the College records students must provide, at their own expense, three copies of a recent photograph (not returnable) of passport type and size. Students who were enrolled in the College in previous sessions must present the Identity Card previously issued to them for re-endorsement for the new session. Where Identity Cards have been lost or are no longer usable, three copies of a recent photograph must again be provided as in the case of first enrolment. Students should note that a charge of £1 will be made for replacement of Identity Cards.

The Identity Card is the property of the College and may be demanded by the College or its officers at any time. Students are therefore required to carry their Identity Cards with them while in College or whenever they may be required to identify themselves as students of the College.

8. Overseas students will be required to hold a First Division Certificate with credits in six subjects including English Language and Mathematics and approved Science Subject and must make application through their Embassy accredited to Ireland.

9. Change of address or place of employment should be reported to the College Office immediately.

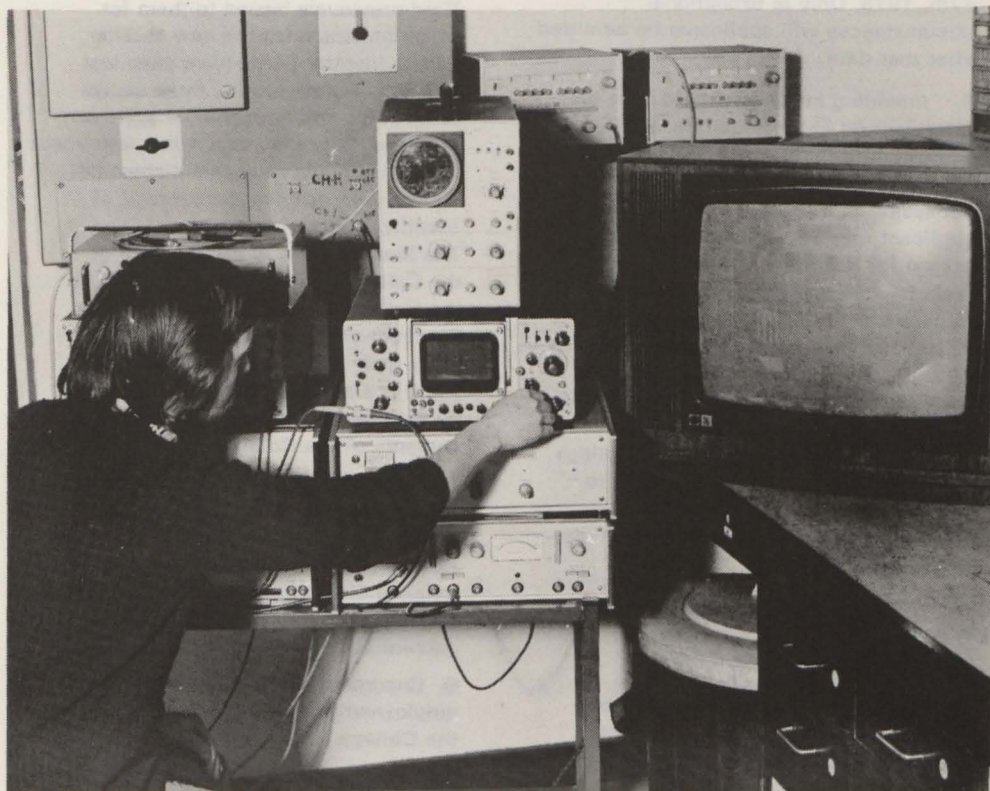
10. The Vocational Educational Committee may change any or all of the

Notice to Students

syllabus, the day and time of any class and may cancel classes where the enrolment or attendance is considered inadequate. If for some urgent reason a teacher cannot attend, classes may be cancelled without notice.

11. No exchange of classes may be made after enrolment without the written consent of the Principal, on the recommendation of the Head of Department.

ELECTRONICS



Notice to Students

ATTENDANCE, ETC., AT CLASSES AND COURSES

1. The Vocational Education Committee may expel any student without refund of fees, for irregular or unpunctual attendance or for any other reason which, in the opinion of the College Council, justifies expulsion. Three successive absences from any class may lead to suspension from the entire course, unless a satisfactory written explanation is submitted to the Principal.

2. Students must provide themselves with such books, instruments and equipment (including special clothing) as their classes may, in the opinion of the College, require. In particular, protective clothing must be worn by all students using the Chemistry or Biology Laboratories or the College Workshops. Safety spectacles must be worn in all Chemistry Laboratories.

3. Students are required to keep such notebooks and record books, and to undertake and submit regularly such homework as may be prescribed by members of the teaching staff. Unreasonable failure in this respect may lead to suspension or expulsion.

4. Apprentices and employers are asked to note particularly that from 1st September, 1976, details of the employment and the attendance of all apprentices enrolled in release courses are being made available to AnCO, the Industrial Training Authority, whether or not the apprentices are registered with AnCO.

EXAMINATIONS

1. Progress from one year of a course to the next will be permitted only to students whom the College deems to have satisfactorily completed the earlier year and passed the required external and/or internal examinations.

2. Students should note that a full attendance at classes in all subjects of their course is expected, and a minimum average attendance of 75% in each subject of their course is required.

Students who fail to comply with this requirement without satisfactory explanation will be refused permission to sit College examinations, and endorsement of their entries for external examinations will similarly be refused.

3. Internal examinations may be set by the College at the end of any year, or at any other point of any course, whether or not external examinations are undertaken at the same point.

4. Students preparing for examinations of external bodies are required to acquaint themselves with the current Regulations of those bodies. Insofar as it is possible the College will advise and assist students regarding the procedure they should adopt in respect of the bodies with which they are concerned.

5. The College is a recognised centre for many external examinations including General Certificate of Education of the University of London, the Department of Education, and The City and Guilds of London Institute. Application for entry to these examinations must be made through the College Office in accordance with the closing dates as indicated on the College Notice Boards. Applications after the respective closing dates will be accepted only on payment of a Late Entry Fee as stipulated by the regulations of the Examining Institute concerned. In the case of

- (i) Department of Education examinations the late entry fee will be £1.00 per subject.
- (ii) The City and Guilds of London Institute £6.00.

Notices to Students

(iii) G.C.E. Examinations £10.00.

Where students are in doubt regarding examinations arrangements they should make enquiry through the Secretary/Registrar's Office.

6. (i) Each student on a course having mandatory College examinations must make application on or before March 9th 1979 to sit the appropriate Summer examinations and pay the appropriate examination fee, where applicable, when making such application. Where Supplemental examinations are held a similar application must be made on or before July 11th, 1979 and a similar fee paid by students who wish to sit the Supplemental examinations. Courses to which this regulation is applicable are identified in the Course descriptions commencing on page 20.

(ii) Students should note that the sole proof that an application has been received by the College is the official receipt for the appropriate examination fee.

(iii) The fees for the College examinations for the session 1978/79 are as follows:

£5 for all final examinations, or any part thereof; £3.00 for the second year examination or any part thereof, on the Diploma Course in Electrical Engineering (Ref. SEE), the Diploma Course in Ophthalmic Optics (Ref. WSO), the Diploma in Applied Sciences (Ref. WSAD), and on the second and third years of the Diploma Course in Dietetics and Nutrition (Ref. WBD):
£1 for all other examinations.

(iv) Applications for entry to examinations received after March 9th, 1979 in the case of Summer examinations and after July 11th, 1979 in the case of Autumn examinations will be considered by the College only where they are accompanied by a Late Entry Fee of £2. No application

for entry to examinations will be considered if received later than Wednesday, April 4th, 1979, in the case of Summer examinations or July 27th, 1979 in the case of Autumn examinations.

(v) Students will be admitted to the Examination Hall only on production of the Identity Card issued by the College in addition to the appropriate admission ticket which is issued when and if an application to sit the examination is approved by the College.

7. Students on courses having mandatory College examinations who do not take their sessional examinations at the Summer sitting will not be permitted to sit the Supplemental examination, unless the College is satisfied that good and sufficient reason (e.g. serious illness) existed for not taking the Summer sitting.

8. Students on courses having mandatory College examinations are required to pass the sessional examinations on their course at the Summer sitting, or, at latest, at the Supplemental sitting (if any) immediately following each year of study. Those who do not pass at these examination sittings will not normally be re-admitted to the course or permitted to resit the examination in later years, except with the special permission of the College Authority. Where such special permission is granted it shall extend to the following Summer and/or Supplemental sitting of the same examination only. **It should be noted that no Supplemental Examinations are held for the Final Year of any College Certificate or Diploma Course.**

9. It is the responsibility of each student to ascertain the dates, times and venues of examinations by consulting the appropriate timetables

Notices to Students

published on the College notice boards. The College does not undertake to provide notices or reminders regarding examinations to individual students. In the case of any uncertainty with regard to examination arrangements enquiries should be made as early as possible in the General Office.

10. Where illness prevents a student from sitting an examination or any part of an examination of the College a Medical Certificate must be submitted to the College Secretary/Registrar not later than the 4th day following the first occasion on which the student is absent. Medical Certificates received later than this will not normally be accepted. Illness will not be accepted as an excuse for absence from examinations unless certified as specified above.

11. Students should pay particular attention to the Regulations of the College Executive Board governing College Examinations as stated in Appendix A on page 60 of this Prospectus.

SCHOLARSHIPS

Students normally resident in the City of Dublin and who wish to compete for a Scholarship from the City of Dublin Vocational Education Committee should complete the official application form. These forms are available from the College Secretary/Registrar or from Heads of Departments.

Please note that the section on the application form which refers to documentation on public examinations and course acceptance must be signed by an authorised member of the College Staff. The CLOSING DATE for applications to the City of Dublin Vocational Education Committee is WEDNESDAY, 12th October, 1978.

Vocational Education Committees

throughout the country offer scholarships to students attending certain full-time technician and other advanced level courses at this College. Interested students should make immediate application to the Chief Executive Officer of their LOCAL Vocational Education Committee.

DEGREES FROM DUBLIN UNIVERSITY

Students who obtain the Diploma in Electrical Engineering (Course SEE) or the Diploma in Applied Sciences (Course WSAD) are eligible for the award of the appropriate B.Sc. Degree from Dublin University. A fee of £23 is payable to Dublin University by those who present themselves for the degree award. All communications in respect of the award of the above degrees should be addressed to: The Proctor's Officer, West Theatre, Trinity College, Dublin 2.

GENERAL

1. Students must at all times obey the lawful instructions of lecturers and other members of the College staff. Misconduct in the College or its grounds may lead to suspension or expulsion. All lecturers are authorised to enforce immediate disciplinary measures in respect of students whom they find violating the regulations of the College or otherwise misconducting themselves.

2. Students are liable for the cost of repair or replacement of College property damaged by them.

3. Students are not permitted to smoke in the College Classrooms, Laboratories, Lecture theatres, workshops, library, gymnasium, swimming pool changing rooms, or Examination Hall.

4. Students are not permitted to bring overcoats, etc., into the College Class Rooms, Laboratories, Lecture Theatres,

Notice to Students

Workshops, gymnasium or library.
Locker accommodation is available for a considerable number of students on payment of a fee of £2.50 per session. This includes a deposit of £2.00, returnable only if the locker key is surrendered within seven days of the expiry of the period for which the locker has been granted.

5. Parking of pedal and motor cycles in the space provided in the College grounds is normally permitted on application. Except with the special permission of the Principal, students are not permitted to bring cars into the College grounds.

6. Students are permitted to use the facilities of the College and particularly of the Gymnasium and Swimming Pool, only on the understanding that they do so at their own risk.

7. Though all reasonable care is taken, the College accepts no liability for student property lost, stolen or damaged on the College premises or grounds.

ENTRY REQUIREMENTS

In general terms, the minimum academic requirements for entry to courses will be as follows:

(a) For Diploma Course in Applied Sciences and Honours Diploma Course in Electrical Engineering: Grade C or higher in two subjects taken at Higher Level (one of which must be in Mathematics or Applied Mathematics or a Science Subject) in the Leaving Certificate examination.

Pass levels in four other subjects in the Leaving Certificate examinations (English and Maths must be among the subjects passed in all cases.)

(b) For other courses requiring Leaving Certificate standard for entry:
Pass in English.
Pass in Maths (or Applied Maths).
Pass in three other subjects in the Leaving Certificate examinations.

(c) Attainment which the College regards as equivalent to those specified in (a) and (b) will be acceptable.

(d) Applicants may be required to undergo Selection Tests and admission will be dependent on satisfactory results in these tests and on satisfactory interview as well as the foregoing.

(e) In some cases the College may demand a pass, or a particular grade of pass, in specific subjects additional to those set out above, particularly where such subjects are required by external examining or other bodies.

(f) Where the entry requirement to a particular course is other than as stated in (a) to (e) above, such requirement will be found under the relevant course heading.

The attention of all students is directed to the General Regulations for Schools and Classes operating under the Authority of the City of Dublin Vocational Education Committee which are displayed in the College.

PHYSICS



COURSES IN SCIENCE

AND RELATED STUDIES

Diploma in Applied Sciences

Ref. WSAD

A wholtime course leading to a Diploma in Applied Sciences for those wishing to combine the study of two areas of science with emphasis on applied aspects. The suitability of the course for industrial and related activities is enhanced by studies in Management and a modern Continental language.

Those who successfully complete this course are eligible for the award of the B.Sc. (Applied Sciences) Degree of the University of Dublin. Both the Diploma and Degree may be awarded with honours classification.

The Course is recognised for the purposes of the Local Authorities Higher Education Grants Scheme.

COURSE DURATION

Four years: 5 days (26-29 hours per week).

QUALIFICATIONS FOR ENTRY

As stated at (a) in General Entry Requirements on page 18.

COURSE

FIRST YEAR: Mathematics, Physics, Chemistry, Management Studies and a Modern Continental Language.

SECOND YEAR: Students select two subjects from Mathematics, Physics and Chemistry and in addition continue their studies in Management Studies and the Modern Continental Language taken in

First year. Students selecting Physics and Chemistry will also be required to take Ancillary Mathematics in Second year.

THIRD YEAR: Students continue their studies in the subjects taken in Second year.

FOURTH YEAR: Each student will continue with the subjects taken in Third year.

EXAMINATIONS

Examinations will be set by the College at the end of each year of the course. These examinations will be held in the Summer. Supplemental examinations will be held where appropriate in the Autumn. The attention of the students is particularly directed to Examination Regulations on pages 15, 16 and 17.

VACATION TRAINING

Students are recommended to undertake suitable employment with Industrial or Scientific enterprises and Laboratories during the Summer Vacation Periods. The College will assist when possible in arranging this vacation work.

COURSE FEE

£65.00 per Academic Year.

DEPARTMENT IN CHARGE

Physics.

University of London B.Sc. Degree

Ref. WSD

This course is being terminated and in Session 1978/79 only the Fourth year of the course will be offered.

Courses in Science

COURSE FEE

£65.00 per Academic Year.

Enquiries should be addressed to the Department of Physics.

University of London B.Sc. Degree

Ref. PSD

A part-time course for the External B.Sc. Degree Examination of London University, for students normally in employment.

This course is being terminated and in Session 1978/79 only the Fourth and Fifth years of the course will be offered.

FEE

£22.00 per academic year.

DEPARTMENT IN CHARGE

Mathematics.

Advanced Science Course

Ref. PSI

This course provides education in science to the Advanced Level of the General Certificate of Education. Entry is restricted to students who are in approved employment.

COURSE DURATION

Part-time—One full day and three evenings per week for one academic year.

MINIMUM QUALIFICATIONS FOR ADMISSION

The Leaving Certificate with Grade C (or higher) in Mathematics, Physics and English, or the General Certificate of Education at Ordinary Level (Grades A, B or C) in Additional Mathematics, Physics, English Language and one other subject;

or an equivalent standard acceptable to the College.

Students electing to study subject groups involving Chemistry and/or Biology should have attained the same standard in the subject(s) as indicated above for Physics.

COURSE

Students must choose one of the following subject groups:

Group 1: Physics, Chemistry, Mathematics.

Group 2: Physics, Chemistry, Biology.

EXAMINATIONS

The General Certificate of Education examination at Advanced Level in the subjects of the Group.

FEE

Part-time: PSI—£20.00 per academic year.

DEPARTMENT IN CHARGE

Mathematics.

Graduateship of the Institute of Physics

Ref. PSIP

NATURE OF THE COURSE

This is a part-time course extending over two Academic years and leading to the Graduateship of the Institute of Physics Part II Examination. Graduateship of the Institute of Physics is recognised as equivalent to an honours degree in Physics.

Courses in Science

QUALIFICATIONS FOR ADMISSION

A B.Sc.(Gen.) or B.A.(Gen.) with Physics as a degree subject, HND in Applied Physics, Technician Diploma in Applied Science (Applied Physics Option) from College of Technology, Kevin Street.

COURSE DURATION

Two years part-time.

COURSE CONTENT

The Graduateship Part II Examination consists of 4 compulsory papers:

- (1) Atomic and Nuclear Physics.
- (2) Solid State Physics.
- (3) Thermal and Statistical Physics.
- (4) Wave Motion and Electromagnetic Radiation and one paper chosen from:

Applied Optics.
Nuclear Instrumentation and Technology.

EXAMINATIONS

The five examination papers may be taken at the end of the second year of the course or alternatively 2 papers, Atomic and Nuclear Physics and Wave Motion and Electromagnetic Radiation, may be taken at the end of the first year and the outstanding papers at the end of the second. Students whose progress during the first year of the course is unsatisfactory will not be allowed to enter second year. Students are advised to familiarise themselves with the regulations of the Institute.

FEE

£26.00 per academic year.

DEPARTMENT IN CHARGE
Physics.

Technicians' Diploma Course in Applied Science

Ref. WAS

This course is designed to meet the requirements of those students seeking a training as Technicians for

- (a) research and development in industrial laboratories;
- (b) scientific and industrial instrument manufacturing industries;
- (c) the food processing industries.

COURSE DURATION

Three years full-time.

QUALIFICATIONS FOR ADMISSION

As stated at (b) in General Entry Requirements on page 18.

COURSE

1st Year: Experimental Physics, Mathematics, Chemistry, Biology, Drawing, Industrial Studies, a Modern Continental Language.

In the second and third years students may specialise in one of the following options:

- (1) Applied Chemistry.
- (2) Applied Biology.
- (3) Applied Physics.

APPLIED CHEMISTRY OPTION

2nd and 3rd Years: Inorganic, Physical, Organic and Analytical Chemistry, Chemical and Plastics Technology, Mathematics, Industrial Studies and a Modern Continental Language.

Courses in Science

The Diploma is approved by the Royal Institute of Chemistry as exempting from Part I Theory Papers of the Graduateship

Agreement has been reached with a number of firms who will offer employment to students during vacation time with a view to offering sponsorship together with career prospects for selected students.

APPLIED BIOLOGY OPTION

2nd Year: Biochemistry, Microbiology, Applied Biology, Photography, Workshop, Biological Application of Radioisotopes, Industrial Studies and a Modern Continental Language.

3rd Year: Biochemistry, Microbiology, Applied Biology, Biological Application of Radioisotopes, Biometry, Industrial Studies and a Modern Continental Language.

APPLIED PHYSICS OPTION

2nd Year: Physics, Mathematics (including the use of computers), Materials Science, Electronics, Medical Physics, Photography, Instrumentation and Control Theory, Engineering Practice, Industrial Studies and a Modern Continental Language.

3rd Year: Electronics, Instrumentation and Control Theory, Materials Science, Mathematics, Applied Optics, Applied Heat and Acoustics, Vacuum Technology, Engineering Practice, Industrial Studies and a Modern Continental Language.

EXAMINATIONS

College Examinations will be set in all subjects at the end of each year. Students must pass these examinations in order to proceed to the next year of the course.

Supplemental examinations will be held where appropriate in September. The College Diploma will be awarded to those who complete the course in a satisfactory manner and pass the examination at the end of the Final Year. The attention of students is particularly directed to the Examination Regulations on pages 15 to 17.

VACATION WORK

Students will be expected to undertake vacation work for at least one month in approved industries. The College may assist them to arrange this.

FEE

£40.00 per academic year.

DEPARTMENT IN CHARGE

1st Year of course: Physics.
2nd and 3rd Years: Chemistry/Biology or Physics as appropriate.

Home-Economics Teachers' Course Ref. S8

This course is designed for Home-economics teachers who wish to study the proposed new Leaving Certificate syllabus in Home-economics.

COURSE DURATION

Two years, two evenings per week.

QUALIFICATIONS FOR ADMISSION

The course is confined to Home-economics teachers.

COURSE DETAILS

Subjects offered will include Chemistry, Biochemistry, Microbiology, Anatomy and Physiology.

Courses in Science

EXAMINATIONS

The College certificate will be awarded to candidates who attend regularly and are successful in the examination at the end of the second year.

The attention of students is particularly directed to Examination Regulations on pages 15 to 17.

FEE

£20.00 per academic year.

DEPARTMENT IN CHARGE

Chemistry and Biology.

Science Laboratory Technicians' Course

Ref. PSL

NEW SCHEME

A part-time course to meet the needs of technicians employed in universities, research and other educational institutions and of technicians employed in industrial laboratories. The aim is to provide a thorough grounding in fundamental laboratory practice and procedures and a sound knowledge of the underlying scientific principles.

The first two years of the course are designed to give a general introduction to Science Laboratory Techniques. The third year is planned to allow some degree of specialisation but still retain most of the broad approach of the first two years.

COURSE DURATION

Three years—one full day or two half days and two evenings/week.

SUBJECTS

Physics, Chemistry, Biology, Laboratory Procedures and Practice, Workshop Practice, Mathematics, Industrial Studies and Laboratory Management.

EXAMINATIONS

Examinations will be held at the end of each year. On passing the third year examinations the student will be awarded a College Certificate.

OLD SCHEME

City and Guilds Course.

Only the fifth and sixth years of the old form of the Course for the City and Guilds Science Technicians' Certificate (held concurrently) will be offered in session 1978/79. Students pursuing the Course in this form should consult the Head of Department.

FEE

£20.00 per academic year.

DEPARTMENT IN CHARGE

Chemistry and Biology.

Courses in Science Glassblowing

Ref. G1

A course for persons in employment in laboratories who require instruction and practice in glassblowing techniques.

COURSE DURATION

One year: one evening per week.

FEE

£10.00 per academic year.

DEPARTMENT IN CHARGE

Chemistry and Biology.

BIOLOGY



Courses in Science

Diploma in Dietetics and Nutrition

Ref. WBD

The course is designed to provide integrated training in the Science of nutrition and dietetics and its applications to human health and wellbeing, both at the individual and community level. Students who qualify are equipped to work in various spheres in the nutritional field such as Health Services; Food Industry; Nutritional Surveys; Advisory work; Teaching and research.

DURATION

4 years. This includes six months' practical working in the Dietetic Department of a recognised teaching hospital and also a period of practical experience in administration of Food Services and other professional work.

SUBJECTS STUDIED

The early stages of the Course include Physics, Chemistry, Mathematics, Biology and Food Preparation, followed by Biochemistry, Physiology, Nutrition, Microbiology, and Food Science. The final stage includes the study of Applied Nutrition, Medicine, Dietetics and Diet Therapy, Administration of Food Services and Practical Training. Technical French and Industrial Studies are included in each year of the Course. This qualification is recognised by the British Dietetic Association for full membership and is accepted for admission to M.Sc. programmes in the field of Human Nutrition in various Universities.

QUALIFICATIONS FOR ADMISSION

Applicants must hold the Leaving Certificate with passes in at least six subjects including English, Mathematics and an approved Science subject (Chemistry, Physics or Biology—

preferably Chemistry), with Grade C or higher in at least two higher course papers. Equivalent qualifications are also accepted.

EXAMINATIONS

Examinations are obligatory at the end of each academic year and must be passed in order to proceed to the following year of the course. These examinations are held in June with supplemental examinations where appropriate in the Autumn. The attention of the student is particularly directed to Examination Regulations on pages 15 to 17.

FEE

£65.00 per academic year.

LECTURER-IN-CHARGE

Miss Frances Doherty,
B.Sc., B.A.(Mod.), M.N.S.

DEPARTMENT IN CHARGE
Chemistry and Biology.

Diploma in Food Science

Ref. S6

A course for Science graduates who require special knowledge of food science. The College will award a Diploma to those who successfully complete the course and pass the examination.

COURSE DURATION

Two years: two evenings per week.

MINIMUM QUALIFICATIONS FOR ADMISSION

B.Sc. or equivalent in Chemistry or Biology subjects.

Courses in Science

COURSE

The course deals with the chemistry and bacteriology of foods as appropriate to research and quality control in the food processing industries. The normal subjects of the course are Applied Chemistry and Bacteriology. Attention is paid to food legislation and codes of practice.

EXAMINATION

The College sets its own examination for the award of the Diploma. The attention of students is particularly directed to Examination Regulations on pages 15 to 17.

FEE

£22.00 per academic year.

DEPARTMENT IN CHARGE

Chemistry and Biology.

Course in Professional Photography

Ref. PSP

This is a part-time course in Professional Photography with admission restricted to students already employed professionally as assistant or trainee photographers. The Certificate of the College is awarded on the result of the College examinations at the end of the third year.

COURSE DURATION

Three years. One day and two evenings per week.

MINIMUM QUALIFICATIONS FOR ADMISSION

As stated at (b) in General Entry Requirements on page 16.

COURSE

1st Year: Photographic Theory and Practice, Chemistry, Physics, Technical German, Industrial Studies, Graphic Design.

2nd Year: Photographic Theory and Practice, Physics, Technical German, Industrial Studies, Graphic Design.

3rd Year: Photographic Theory and Practice (including Colour Work), Physics, Technical German, Industrial Studies, Graphic Design.

EXAMINATIONS

The final examination for the College Certificate in Professional Photography is taken at the end of the third year.

Students are required to sit and pass the College examinations at the end of each year of the Course.

The attention of students is particularly directed to Examination Regulations on pages 15 to 17.

FEE

£25.00 per academic year.

DEPARTMENT IN CHARGE

Physics.

Advanced Certificate in Professional Photography

Ref. PSP4

NATURE OF THE COURSE

The Advanced Certificate in Professional Photography is a two-year part-time course and is intended for the student who has obtained the College Certificate in Professional Photography. The course aims to increase the student's depth of photographic knowledge and to prepare

Courses in Science

him for a considerable degree of personal responsibility, both in the organisation, planning and execution of his work as a Photographer and in the supervision of others. Considerable emphasis is placed on developing an awareness of the economic factors affecting the operation of the photographic business or establishment.

COURSE DURATION

Two years part-time.

QUALIFICATIONS FOR ADMISSION

- (1) College Certificate in Professional Photography.
- (2) An examination which the College considers an equivalent of (1).

CURRICULUM

1st Year: Photography Theory and Practice, Management and Industrial Studies, Law, Graphic Design.

2nd Year: Photography Theory and Practice, Management and Industrial Studies and Graphic Design.

EXAMINATIONS.

A College Examination will be set in all subjects at the end of the first year. Students must complete their course work in a satisfactory manner and pass the examinations in order to proceed to the second year of the course. The College Advanced Certificate will be awarded to students who complete their course work in a satisfactory manner and pass the examinations at the end of the second year.

COURSE FEE

£25.00 per academic year.

DEPARTMENT IN CHARGE

Physics.

Photographic Technician's Certificate

Ref. PSPT

This course is intended to meet the requirements of students who are employed:

- (a) As photographic technicians in research, industry or allied fields.
- (b) In the photofinishing industry and commercial colour laboratories.

The Certificate of the College is awarded on the result of the College examinations at the end of the third year of the course.

COURSE DURATION

Three years. One day and two evenings per week.

QUALIFICATIONS FOR ADMISSION

As stated at (b) in General Entry Requirements on page 18.

COURSE

1st Year: General Photographic Theory, Mathematics, Physics, Chemistry, Industrial Studies, Graphic Design.

2nd Year: General Photographic Theory, Physics, Chemistry, Industrial Studies, Engineering Practice, Graphic Design.

3rd Year: In the third year of the course, the student will follow a specialised course in one of the following:

- (a) Applied Photography
or
- (b) Photofinishing and Colour Laboratory Practice
and continue studies in Physics, Industrial Studies, Engineering Practice.

EXAMINATIONS

The Photographic Technician's Certificate Examination is taken at the end of the third year. Students are required to sit and pass the College examinations at the end of each year of the course. The attention of students is particularly directed to Examination Regulations on pages 15 to 17.

Courses in Science

FEE

£25.00 per academic year.

DEPARTMENT IN CHARGE

Physics.

Graduateship of the Royal Institute of Chemistry

Ref. PSIC

This is a part-time course leading to Graduateship of the Royal Institute of Chemistry (PartII). This qualification is recognised as equivalent to an honours degree in Chemistry.

QUALIFICATIONS FOR ADMISSION

G.C.E. 'A' Levels in Chemistry, Physics and Mathematics or a National Certificate in Applied Chemistry. Candidates who in Applied Chemistry. Candidates who already hold a B.Sc. (General) or a B.A. (General) with Chemistry as a degree subject, or a HND in Applied Chemistry, or a Technician Diploma in Applied Science (Applied Chemistry Option) from the College of Technology, Kevin Street, may be exempted from the Part I examination, subject to the approval of the Royal Institute of Chemistry.

EXAMINATIONS

Students may sit the Part I examination at the end of the second year and Part II at the end of the fourth year. Students work is assessed in all stages of the course.

Students are advised to familiarize themselves with the regulations of the Royal Institute of Chemistry.

FEE

£26.00 per academic year.

DEPARTMENT IN CHARGE

Chemistry and Biology.

Courses for Medical Laboratory Technicians

Ref. Wholetime WML

The following information refers to the existing course structure which is currently under review.

These courses provide education in the appropriate Sciences and Technology for those seeking a career as Technicians in Medical or Veterinary Laboratories.

The Courses are designed to enable students ultimately to become Members of the Institute of Medical Laboratory Sciences.

COURSE DURATION

WML, three years—five days per week for the full academic session in the first year; in the second and third years students attend full-time for approximately six weeks in each year.

MINIMUM QUALIFICATIONS FOR ADMISSION

Leaving Certificate with Mathematics, English and an approved Science subject. It should be noted that, because of the large number of applicants for this course, those who are admitted normally have a Leaving Certificate performance exceeding the minimum requirement stated above.

Courses in Science

In addition to the above those seeking admission to the 2nd and 3rd year must be in appropriate employment in an approved medical or veterinary laboratory.

COURSES

Wholetime WML:

1st year: Mathematics, Physics, Chemistry, Biology, Medical Laboratory Sciences, Social Science and Industrial Studies.

2nd and 3rd years: Medical Laboratory Sciences,* Chemistry, Biology, Physics.

*Includes Histopathology, Haematology, Blood Transfusion, Microbiology, Clinical Chemistry.

EXAMINATIONS

Stages 1 and 2

examinations for the Certificate in Medical Laboratory Sciences are taken as follows:

Stage 1 together with a College Examination in Industrial Studies at end of 1st year.

Stage 2 at end of 3rd year.

Each part of the examination will be held twice a year.

Students should note that to proceed to the second year of the course they are required to pass the six subjects of their first year course as follows:—

The Examination Subjects are regarded in two groups:

GROUP A

Chemistry
(Stage 1).

Biology

(Stage 1).

Medical Laboratory Sciences
(Stage 1).

GROUP B

Physics
(Stage 1).

Mathematics
(Stage 1).

Industrial Studies
(Year 1).

Students with passes in 2 subjects only in each group may at the discretion of the Executive Board of the College, be allowed to carry the other subject and to proceed to the second year.

It should be noted that the Grade A.L. in Stage 1 Examination is not acceptable as a pass for this purpose.

FEES

Wholetime WML: 1st year £50.00 per academic year.

2nd and 3rd years: £20 per course.

LECTURER-IN-CHARGE

Dr. Doreen K. Nolan,
L.M., L.R.C.P.I., L.R.C.S.I., D.P.H.

DEPARTMENT

Chemistry and Biology.

Courses in Science

Advanced Course in Medical Laboratory Sciences

Ref. WAML

The following information refers to the existing course structure which is currently under review. An advanced course for students of Medical Laboratory Science who are employed in approved medical or veterinary laboratories.

COURSE DURATION

Two years block-release of 12 weeks duration in each year.

QUALIFICATIONS FOR ADMISSION

The Certificate in Medical Laboratory Sciences with full credits in Physics and Mathematics, or equivalent.

COURSE

All Students will study core subjects and select one specialist option.

CORE

Chemistry, Biochemistry, Physiology, Physics, Industrial Studies.

SPECIALIST SUBJECT

Microbiology, Histopathology, Haematology and Blood Transfusion, Clinical Chemistry.

EXAMINATIONS

Students are examined at the end of both years I & II in all the core subjects and in their chosen specialist subject.

FEE

£20.00 per course.

DEPARTMENT IN CHARGE

Chemistry and Biology.

Special Course for Fellowship of the Institute of Medical Laboratory Sciences

Ref. S10

An advanced course in Medical Laboratory Sciences for students taking special fellowship examination of the Institute of Medical Laboratory Sciences. Courses are offered subject to sufficient enrolments.

COURSE DURATION

Two years, one evening per week.

QUALIFICATIONS FOR ADMISSION

Associateship of the Institute of Medical Laboratory Sciences or Diploma in Medical Laboratory Sciences.

EXAMINATION

Special Fellowship examination of the Institute of Medical Laboratory Sciences.

COURSE FEE

£15.00 per academic year.

DEPARTMENT IN CHARGE

Chemistry and Biology.

Course in Animal Technology/ Nursing

Ref. S9

This is a two year evening course for animal technicians and nurses who are employed in approved veterinary institutions. Classes are held concurrently for anatomy and physiology and separate classes are held for each group in the specialised aspects of animal technology and nursing.

At the end of the first year animal technicians sit the Intermediate

Examination of the Institute of Animal

OPTICS



Courses in Science

Technicians. After a further two years study (one year course) they sit the Associateship Examination of the Institute of Animal Technicians. Animal nurses sit Part I of the registration examination for Registered Nursing Auxiliaries of the Royal College of Veterinary Surgeons at the end of the first year. At the end of the second year they may complete Part II of this examination, thus qualifying as Registered Animal Nursing Auxiliaries.

COURSE FEE

£19.00 per academic year.

DEPARTMENT IN CHARGE

Chemistry and Biology.

Institute of Meat Course

Ref. S11

A course leading to the Certificate of the Institute of Meat.

The course is designed for supervisory personnel in the Meat Industry and the evening classes are supplemented by on-the-job training in the relevant meat factories. Students are therefore required to be in appropriate employment. Although formal entry qualifications are not required it is assumed that candidates have a school background of Leaving Certificate standard.

COURSE DURATION

Two years—two evenings per week.

FEE

£20.00 per academic year.

DEPARTMENT IN CHARGE

Chemistry and Biology.

Course in Plastics

Ref. PCP

A part-time course for trainee technicians, foremen supervisors and trainee managers in the plastics processing industry. The course is designed to give a broad

education in plastics processing and includes a study of material science, extrusion technology, film production, blow moulding, injection moulding and pipe-extrusion.

COURSE DURATION

One year—one week full-time in September, followed by one afternoon and evening during the remainder of the academic year.

ADMISSION REQUIREMENTS

As stated at (b) General Entry Requirements on page 18. Applicants must be employed in the plastics industry.

FEE

£20.00 per academic year.

DEPARTMENT IN CHARGE

Chemistry and Biology.

Diploma in Ophthalmic Optics

Ref. WSO

This is a whole-time course leading to a Diploma in Ophthalmic Optics and providing the educational and training statutorily required for entrants to the profession by the Opticians' Act, 1956 and the Rules made thereunder. The course is approved by Bord na Radharcmhastoiri (the Opticians' Board) which is the Registration Authority set up under the Act. Holders of the Diploma in Ophthalmic Optics must also satisfy the Council of the Association of Ophthalmic Opticians, Ireland, of their clinical competence.

COURSE DURATION

Four years, including a period of six months' supervised practice undertaken at the end of the third year of the course.

ENTRY REQUIREMENTS

To be eligible for admission to the course, applicants must hold the Leaving

Courses in Science

Certificate with passes in at least six subjects including English and Mathematics, with Grade C or higher in at least two higher course papers.

Equivalent qualifications are also accepted.

COURSE

First Year: Mathematics, Physics, Chemistry, Biology, Workshop Practice, Technical German and Industrial and Related Studies.

Second Year: Statistical Methods, Anatomy and Physiology, Biochemistry, Physical and Geometric Optics, Optical Dispensing, Visual Optics, Technical German and Industrial and Related Studies.

Third Year: Visual Optics and Instruments, Physiology of Vision, Binocular Vision, Contact Lenses, Optical Dispensing, Ophthalmic Practice, Abnormal Ocular Conditions, Law and Ethics, Technical German and Industrial and Related Studies.

Fourth Year: Six months' supervised practice followed by a return to College for: Abnormal Ocular Conditions, Ophthalmic Practice, Contact Lenses, Environmental Optics, Project Work, Technical German and Industrial and Related Studies.

EXAMINATIONS

Examinations will be set by the College at the end of each year of the course. These will be held in the Summer. Repeat examinations will be held where appropriate in the Autumn. The attention of students is particularly directed to Examination Regulations on pages 15 to 17.

FEE

£65.00 per academic year.

LECTURER-IN-CHARGE

K. P. Culliton, F.A.O.I.

DEPARTMENT

Physics.

Persons interested in a course in Optical Dispensing should consult the Lecturer-in-Charge.

Associateship of the Institute of Brewing

Ref. PBA

A part-time day course for technical staff employed in the Brewing and Distilling Industry. The course structure has been approved by the Institute of Brewing.

QUALIFICATIONS FOR ADMISSION

As stated in (b) in General Entry Requirements on page 18.

COURSE DURATION

Two years.

COURSE CONTENT

First year: Chemistry, Physics and Botany.
Second year: Biochemistry, Microbiology, Fermentation Science.

EXAMINATIONS

Students will be expected to sit the Examination for Associateship of the Institute of Brewing at the end of the second year.

FEE

£20.00 per academic year.

DEPARTMENT IN CHARGE

Chemistry and Biology.

Courses in Science

Certificate for Medical Physics and Physiological Measurement Technicians

Ref. PBE

This is a course for those who work in Medical Physics, or are engaged in various aspects of physiological measurement or bio-engineering. It will be of interest to those working in hospitals, research, and certain types of veterinary, pharmaceutical and agricultural work. The course in the first year deals with the basic sciences and in subsequent years with the general range of Physiological Measurement, Bio-engineering and radioisotope techniques normally used in these situations.

DURATION

Three years, three nights per week.

ENTRY QUALIFICATIONS

As stated in (b) in General Entry Requirements. Prospective students are also required to be in an appropriate form of employment.

COURSE CONTENT

1st Year: Physics, Chemistry and Biology. Introduction to Electricity, Physiology and Data Presentation.

2nd Year: Electricity and Electrical Measurements, Human Physiology and Biochemistry, Radiation Physics, Physical Principles of Instrumentation and Data Interpretation.

3rd Year: Physiology, Physiological Measurement Techniques, Biophysics, Bio-engineering Techniques, Radioisotopes Techniques, Computation Techniques.

EXAMINATIONS

Students will sit College Examinations at the end of each year. At the end of the third year students will sit for the College Certificate Examination.

FEE

£20.00 per academic year.

DEPARTMENT IN CHARGE

Physics.

Dental Craftsman's Course

Ref. PSDC

A part-time course for apprentices employed in dental laboratories. By co-operation with the Board of Governors, the classes in Dental Technology are held in the Dental Hospital.

COURSE DURATION

Four years: one half-day and two evenings per week.

ADMISSION REQUIREMENTS

Applicants must be employed in approved dental laboratories and should have the Intermediate or Group Certificate in approved subjects.

COURSE

1st Year: English, Science, Dental Theory and Drawing, Dental Technology.

2nd Year: Science, Dental Theory, Dental Technology.

3rd and 4th Years: Organic Chemistry, Electrotechnology, Dental Theory, Dental Technology.

Courses in Science

EXAMINATIONS

At the end of the second and fourth years students take the Intermediate and Final Examinations, respectively, for the Dental Technician's Certificate of the City and Guilds of London Institute. Internal examinations may be set by the College at the end of other years of the course.

FEE

£11.00 per academic year.

DEPARTMENT IN CHARGE

Chemistry and Biology.

EVENING COURSES IN MATHEMATICS

The Mathematics Department provides the following series of courses for those who wish to improve their mathematical knowledge, particularly in relation to the fields of application indicated.

GENERAL ADMISSION REQUIREMENTS

Admission to any stage of these courses depends on the applicant's knowledge of the material covered in earlier stages and each application is individually assessed on its merits. The Mathematics Department will gladly advise applicants regarding the course and stage most appropriate for their purposes. Applicants may be required to take an admission test.

Mathematics for Engineering Practice and Trades

Ref. M1

A Course in Practical Mathematics.

COURSE DURATION

Four years: One evening (2 hours) per week.

EXAMINATIONS

The Elementary Technological Certificate Examination of the Department of Education at the end of the second year; the Intermediate Examination at the end of the fourth year.

FEE

£9.00 per academic year.

Mathematics for Telecommunications

Ref. M2

COURSE DURATION

Four years: One evening per week (1½ hours per week for first two years; 2½ hours per week in third and fourth years).

EXAMINATIONS

City & Guilds of London Institute Telecommunication Technicians' Course examinations in Practical Mathematics at the end of the first year and in Mathematics A, B, C at the end of second, third and fourth years, respectively.

FEE

£9.00 per academic year.

Mathematics for Engineering

Ref. M3

COURSE DURATION

Four years: One evening per week (1½ hours in the first and second years; 2 hours in third year; 3 hours in fourth year).

Courses in Science

EXAMINATIONS

The Advanced Technological Certificate Examination in Mathematics of the Department of Education at the end of the second year and the Higher Technological Certificate Examination in Mathematics at the end of the fourth year.

FEE

£9.00 per academic year.

Mathematics for Science

Ref. M4

A course covering Mathematics from G.C.E. "A" Level to Part II B.Sc. Degree (External) of University of London.

COURSE DURATION

Six Years: One evening (3 hours) per week.

EXAMINATIONS

University of London examinations: G.C.E. "A" Level Pure Mathematics (Syllabus 405) at end of second year. The final four years do not constitute a degree course and are intended for students who wish to study mathematics up to degree level without taking examinations. The Part I standard is reached at the end of the fourth year and Part II standard at the end of sixth year.

FEE

£12.00 per academic year.

Applied Mathematics

Ref. M5

COURSE DURATION

One Year: one evening (3 hours) per week.

EXAMINATIONS

"A" Level Mathematics (Syllabus D) at end of the year.

FEE

£12.00 per academic year.

Statistics

Ref. M6

A course leading to Membership of the Institute of Statisticians.

Classes are provided for students preparing for Stages I, II and III of the Institute's Examinations.

A course for the Preliminary Examination is available in the College of Commerce, Rathmines.

The Institute may grant exemption from the Preliminary Examination and in certain cases the Part I examination, to candidates with suitable qualifications.

COURSE DURATION

Three Years: Three evenings (9 hours) per week in the first year and two evenings (6 hours) per week in the second and third years.

EXAMINATIONS

First Year: The Stage I Examination of the Institute of Statisticians at the end of the first year involving three papers:

- (a) mathematics
- (b) elements of statistical theory
- (c) elements of statistical methods

Courses in Science

Second Year: The Stage II Examination of the Institute of Statisticians at the end of the second year involving three papers:

- (a) statistical theory I
- (b) statistical theory II
- (c) applied statistical methods

Third Year: The Stage III Examination of the Institute of Statisticians at the end of the third year involving three papers:

- (a) sample surveys and experimental design
- (b) special subject A chosen from four options
- (c) special subject B chosen from four further options

Applicants should consult the Head of the Department regarding the options which the College is prepared to offer. Students are advised to familiarise themselves with the regulations of the Institute.

FEE
£20.00 per academic year.

DEPARTMENT IN CHARGE
Mathematics.

Graduateship of the Institute of Mathematics and its Applications Ref. M7

A Course leading to the Graduateship of the Institute of Mathematics and its Applications. Graduateship of the Institute of Mathematics and its Applications is recognised as equivalent to an honours degree in Mathematics.

COURSE DURATION
Two years: three evenings per week.

QUALIFICATIONS FOR ADMISSION
A university degree with mathematics at the General Degree level or equivalent.

COURSE
The Graduateship Examination consists of two parts.

Part I

Four papers: three of which must be passed at one sitting

- (a) mathematical analysis
- (b) mathematical methods
- (c) algebra

- (d) statistics and mechanics

Part II

Four papers: one compulsory paper:
(a) mathematical methods

and three papers chosen from a list of options.

Applicants should consult the Head of the Department regarding the options which the College is prepared to offer.

EXAMINATIONS

Normally students would sit the Part I at the end of first year and Part II at the end of second year.

Students are advised to familiarise themselves with the regulations of the Institute.

FEE
£25.00 per academic year.

DEPARTMENT IN CHARGE
Mathematics.

COURSES IN MODERN LANGUAGES

The Department of Languages and Industrial Studies provides the following courses in Modern Languages for those who wish to acquire or improve a competence in the use of Modern Languages for specialist (vocational, scientific or technical) purposes.

INTENSIVE COURSE IN TECHNICAL FRENCH AND TECHNICAL GERMAN/ Ref. GSAF and GSAG.

An intensive course in Technical French or Technical German for those who wish to improve their knowledge and competence in either as a language or specialisms (i.e. in the specialist aspect of vocational scientific and technical language).

EVENING COURSES IN MODERN LANGUAGES, GERMAN, FRENCH, RUSSIAN FOR SPECIALIST PURPOSES Ref. L/1/2/3.

COURSE DURATION
2 evenings (6 hours per week).

FEE
£20.00 per academic year.

ENGINEERING COURSES

ELECTRICAL, ELECTRONIC, TELECOMMUNICATIONS ENGINEERING & RELATED COURSES

Honours Diploma Course in Electrical Engineering

Ref. SEE

A whole-time honours course leading to a Diploma in Electrical Engineering for those wishing to become professional electrical engineers.

Those who successfully complete this course are eligible for the award of the B.Sc.(Eng.) degree of the University of Dublin.

This course is recognised for the purposes of the Local Authorities Higher Education Grants Scheme.

The course is designed to meet the standards set by the Council of Engineering Institutions (CEI). The Institution of Engineers of Ireland recognise this Diploma as fulfilling the educational requirements for Ordinary Membership of this Institution and the consequent exemption of holders of this Diploma from Parts A and B of the Institution examination.

COURSE DURATION

Four years: 5 days (approx. 30 hours) per week.

ENTRY REQUIREMENTS

As stated at (a) in General Entry Requirements on page 18.

COURSE

First year: Mathematics, Physics, Applied Mathematics, Electricity, Engineering Drawing, Materials and Processes. The Engineer in Society and Continental Language.

Second year: Mathematics, Physics, Applied Mathematics, Electricity, Engineering Drawing, Materials and Processes, The Engineer in Society, Electronics and Continental Language.

Third year: Mathematics, Physics, Electrical Measurements, Field and Circuit Theory, Control Systems, Communications Engineering or Electrical Power, The Engineer in Society, Electronics and Continental Language.

Fourth year: Mathematics, Electrical Engineering Materials, Field and Circuit Theory, Control Systems, Communications Engineering or Electrical Power, Engineer in Society, Electronics and Continental Language.

EXAMINATIONS

Examinations will be set by the College at the end of each year of the course. These examinations will be held in the Summer. Repeat examinations will be held where appropriate in the Autumn. The attention of students is particularly directed to Examination Regulations on pages 15 to 17.

VACATION TRAINING

Students are expected to undertake approved employment with engineering enterprises during the Summer vacation periods. The College will assist in arranging this vacation work.

FEE

£65.00 per academic year.

DEPARTMENT IN CHARGE

Electrical Engineering.

Technician Engineering Diploma Course—Electrical Engineering

Ref. WEET

A whole-time course leading to a Technician Engineering Diploma of a high standard in the field of Electrical Engineering. The course has been approved by the Institution of Engineers

ELECTRICAL ENGINEERING



Engineering Courses

of Ireland and holders of the College Diploma are eligible for election to the grade of Affiliate and later to the grade of Associate of the Institution.

Information may be obtained from the College Secretary/Registrar.

COURSE DURATION

Three years: 5 days (approx 32 hours) per week.

ENTRY REQUIREMENTS

As stated at (b) in General Entry Requirements on page 18.
Entrants to the course may be eligible for scholarships which are awarded by the Vocational Education Committees.

In addition all prospective students are interviewed and may be required to undertake a suitability test.

COURSE

First Year: Mathematics, Applied Mechanics, Physics, Engineering Drawing, Mechanical Workshop, Principles of Electricity, Electronics, Electrical Practice, Economics and a Continental Language.

Second year: Mathematics, Thermodynamics and Hydraulics, Properties of Materials, Electrical Measurements and Testing, Circuit Theory, Electrical Machines, Electronics, Generation and Transmission, Economics, Distribution and Utilisation, and a Continental Language.

Third year: Mathematics, Projects, Control Systems, Circuit Theory, Electronics, Generation and Transmission, Economics and a Continental Language. Details of the syllabi are available on request.

EXAMINATIONS

Examinations will be set by the College at the end of each year of the course. These examinations will be held in the Summer. Repeat examinations will be held where appropriate in the Autumn.

The attention of students is particularly directed to Examination Regulations on pages 15 to 17 which apply to this course.

VACATION TRAINING

Students are expected to undertake approved employment with engineering enterprises during the Summer vacation periods. The College will, as far as possible, assist students in obtaining such vacation work.

FEE

£40.00 per academic year.

DEPARTMENT IN CHARGE

Electrical Engineering.

Electrical Technician Certificate Course

Ref. PET

A part-time day-release and evening course, which leads to a College Certificate, for personnel in the Electrical Industry.

COURSE DURATION

The course runs over the normal college session and the duration per week is:

Year I, II, and III: one full day and three evenings.

Year IV: four evenings.

Engineering Courses

ENTRY REQUIREMENTS

(1) Students must be employed in the Electrical Engineering field

AND

(2) Must have passed five subjects in the Leaving Certificate examination (see page 18 or have approved alternative qualification.

COURSE CONTENT

The technological subjects include Generation and Transmission, Utilization, Control and Instrumentation, Applied Electronics, Circuit Theory.

The course also includes Mathematics, Physics and English.

EXAMINATIONS

Students will sit college examinations at the end of each session. In addition students may take the Electrical Engineering Practice examinations of the Department of Education or of the City and Guilds of London Institute.

FEE

£20.00 per academic year.

DEPARTMENT IN CHARGE

Electrical Engineering.

Electrical Technicians' Course

(Block-release) Ref. SEBT

A block-release course which trains technicians for the electrical supply industry.

COURSE DURATION

Two years: 14 weeks in year one and 18 weeks in year two.

ADMISSION REQUIREMENTS

Prospective students must be employed by the electrical supply industry and they must have passed Mathematics intermediate level (T.I.B.) or equivalent.

COURSE

First year: Mathematics, English, Principles of Electricity, Electrical Power, Applied Mechanics.

Second year: Mathematics, English, Field and Circuit Theory, Generation and Transmission, Machines, Distribution and Utilisation, Electrical Measurement.

EXAMINATIONS

Year 1: College examinations.

Year 2: The final examination in Electrical Engineering Practice of the City and Guilds of London Institute and of the Department of Education.

FEE

£20.00 per academic year.

DEPARTMENT IN CHARGE

Electrical Engineering.

Electrical Technicians' Course

(Evening) El. 1/2/3/4

An evening Course which prepares students for the Electrical Practice examinations of the Department of Education and the City and Guilds of London Institute.

COURSE DURATION

Four years: three or four evenings per week.

Engineering Courses

ADMISSION REQUIREMENTS

Prospective students must:

- (i) be employed in the electrical industry;
- (ii) have passed the Leaving Certificate with Physics (see Page 18) or have an approved alternative qualification.

COURSE SUBJECTS

Year 1: Mathematics, Mechanics, Electrical Engineering Principles, Engineering Graphics.

Year 2/3: Mathematics, Mechanics, Field and Circuit Theory, Electrical Power, Electronics.

Year 4: Advanced Electrical Technology, Utilisation of Electrical Energy, Control Systems Engineering.
Laboratory work is included in all years of the Course.

EXAMINATIONS

Electrical Engineering Practice (803) of the City and Guilds of London Institute.
Year 1: Part I

Year 3: Part II with Electronics and Power options.

Year 4: Part III with Utilisation of Electrical Energy and Control Systems Engineering options.

Department of Education

Year 4: Advanced Electro-technology, and Electrical Engineering Practice (Section B—Advanced Stage).

FEE

£20.00 per academic year.

DEPARTMENT IN CHARGE

Electrical Engineering.

Electrical Engineering

(Evening Course) Ref. E5.1

This is a two-year Evening course covering some of the subjects of the Council of Engineering Institution's Part 1 Examination.

ENTRY REQUIREMENTS

Students must have completed an approved Technician Course in the electrical or communication field, and have reached an approved level in Mathematics, Applied Mathematics and Physics.

COURSE

The course will run for three or four evenings per week.

Ref. E5.2

This is a two-year Evening Course covering some of the subjects of the Council of Engineering Institutions Part II Examinations for students who have completed an approved Technician Engineering Course.

ENTRY REQUIREMENTS

Students must have completed a Technician Engineering Course in the electrical or communication field and must also have passed or have exemption from the C.E.I. Part 1 Examination.

Engineering Courses

COURSE

The course will run for three or four evenings per week and will cover a selection of subjects in the electric power and communication fields, together with the Engineer in Society.

FEE

£20.00 per academic year.

DEPARTMENT IN CHARGE

Electrical Engineering.

Technician Engineering Diploma Course—Telecommunications and Electronics

Ref. WRTT

A wholtime course designed to provide a broad and thorough education for students intending to pursue careers as technician engineers in telecommunications and electronics.

COURSE DURATION

Three years: five days per week.

MINIMUM QUALIFICATION FOR ADMISSION

As stated at (b) in General Entry Requirements on page 18

COURSE

1st year: Mathematics, Applied Mathematics, Physics, Engineering Drawing, Workshop Practice, Electricity, Electronics, Industrial Studies and Continental Language.

2nd year: Mathematics, Physics, Electricity, Electronics, Circuit Theory, Measurements, Communications Engineering, Industrial Studies and Continental Language.

3rd year: Mathematics, Physics, Electronics, Circuit Theory, Measurements, Communications Engineering, Industrial Studies and Continental Language.

EXAMINATIONS

The Diploma Examination is taken at the end of the third year. Internal College examinations are held at the end of the first and second years. The attention of students is particularly directed to Examination Regulations on pages 15 to 17.

FEE

£40.00 per academic year.

DEPARTMENT IN CHARGE

Telecommunications Engineering.

Telecommunication Technicians' Evening Course

Ref. R6

This evening course is designed to prepare students for the Part 1, Part 2 and Part 3 examinations of the City and Guilds of London Institute Course 271 (Telecommunication Technicians Certificate).

COURSE DURATION

The first two years complete the requirements for the Part 1 examination. A further two years are required to complete the requirements for the Part 2 examination.

Over these four years attendance at the College is required on four evenings (12 hours) per week.

A fifth year, with attendance on three evenings (9 hours) per week, completes the course requirements for the Part 3 examination.

TELECOMMUNICATIONS & ELECTRONICS



Engineering Courses

EXAMINATIONS

Part I (T1) Examinations:

Available for repeat students only
in the 1979 sittings (see above NOTE).

Practical Mathematics (270-1-01)

Engineering Science (270-1-02)

Reports, Drawings & Processes (270-1-03)

At the end of second year students will

take the Part 1 (T2) examinations:

Mathematics A (270-2-05)

Principles A (270-2-06)

and

Radio and Line Transmission A (270-2-07)

or

Computers A (270-2-10)

At the conclusion of third year students
will sit for the Part 2 (T3) examinations in

Mathematics B (271-3-11)

Telecommunication Principles B

(271-3-12)

and

Radio and Line Transmission B (271-3-13)

or

Computers B (271-3-17)

At the end of fourth year the student will
take the part 2 (T4) examinations in

Mathematics C (271-4-18)

Telecommunication Principles C

(271-4-19)

and

Communication Radio C (271-4-20)

or

Computers C (271-4-30)

The Part 3 examination will be taken at the
end of fifth year in the following subjects:

Advanced Telecommunication

Principles (271-5-31)

and

Advanced Communication
Radio (21-5-33)

or

Computer Principles (271-5-42)

FEE

£19.00 per academic year.

DEPARTMENT IN CHARGE

Telecommunications Engineering.

Technician Diploma Course in Radio-Electronics

Ref. WRS

The theoretical and practical content of
this wholtime course is designed to
provide a sound technical education for
students preparing for careers as
technicians in the production, testing,
installation and maintenance of radio and
electronic equipment.

COURSE DURATION

Three years: five days per week.

MINIMUM QUALIFICATIONS FOR ADMISSION

As stated at (b) in General Entry
Requirements on page 18.

COURSE

1st year: Mathematics, Applied
Mathematics, Physics, Electricity,
Radio-Electronics, Engineering Drawing,
Workshop Practice, Industrial Studies.

2nd year: Mathematics, Physics, Electric
Circuits, Electronics, Radio
Communication, Industrial Instrumentation
and Measurements, Industrial Studies.

Engineering Courses

3rd year: Mathematics, Electric Circuits, Electronics, Radio Communication, Industrial Instrumentation and Control Systems, Industrial Studies.

In addition, a Continental Language (French/German) is included in all years of the course.

EXAMINATIONS

Internal College Examinations will be taken at the end of first and second years, and the Diploma Examination at the end of the third year.

The attention of students is particularly directed to Examination Regulations on pages 15 to 17.

FEE

£40.00 per academic year.

DEPARTMENT IN CHARGE

Telecommunications Engineering.

Radio, Television and Electronics Technicians' Course

Ref. R5

This evening course is designed to prepare students for the Part 1, Part 2 and Part 3 examinations of the City and Guilds of London Institute Course 272 (Radio, Television and Electronics Technician).

COURSE DURATION

The first two years complete the requirements for the Part 1 examination. A further two years are required to complete the requirements for the Part 2 examination.

Over these four years attendance at the College is required on four evenings (12 hours) per week.

A fifth year, with attendance on three evenings (9 hours) per week, completes the course requirements for the Part 3 examination.

EXAMINATIONS

Practical Mathematics	(270-1-01)
Engineering Science	(270-1-02)
Reports Drawing & Processes	(270-1-03)

At the end of second year students will take the Part 1 (T2) examinations:

Mathematics A	(270-2-05)
Principles A	(270-2-06)
Radio and Electronics A	(270-2-11)

At the conclusion of third year students will sit for the Part 2 (T3) examinations in

Mathematics B	(271-3-11)
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and

Principles B	(271-3-12)
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together with a College examination in Radio and Electronics B.

At the end of fourth year the student will take the Part 2 (T4) examinations in

Testing Methods	(272-2-11)
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together with either

Radio and Television Theory	(272-2-12)
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and

Radio and Television Fault Diagnosis	(272-2-13)
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or

Electronics Theory	(272-2-14)
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and

Electronics Fault Diagnosis	(272-2-15)
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The Part 3 examination will be taken at the end of fifth year in the following subjects:

Engineering Courses

Colour Television (272-5-23)

and

F. M. and Multiplex Stereo (272-4-22)

FEE

£19.00 per academic year.

DEPARTMENT IN CHARGE

Telecommunications Engineering.

Industrial Electronics for Electricians

Ref. R7

This course consists of a series of 40 lecture/demonstrations extending over two years directed specifically towards electricians who require an understanding of industrial electronic principles and equipment.

The course provides an introduction to the principles of analogue and digital electronics and treats selected industrial applications.

ADMISSION REQUIREMENTS

Entry to the course is restricted to those who have completed a recognised electrical apprenticeship and who are employed as electricians.

COURSE FEE

£20.00

DEPARTMENT IN CHARGE

Telecommunications Engineering.

Radio, Television and Electronics Mechanics Course

Ref. PRM

This is a part-time day release course designed to prepare students for Parts I, II and III of the City and Guilds of London Institute Course 222 (Radio, Television and Electronics Mechanics).

COURSE DURATION

The course extends over four years.

Attendance at the College is required for one day and two evenings per week (12½ hours) for each of the four years.

ADMISSION REQUIREMENTS

A pass in the Intermediate Certificate or Group Certificate of the Department of Education, with Mathematics and English as essential subjects.

Prospective students **MUST** be employed as trainees or apprentices in the electronics or telecommunications field.

COURSE

The course subjects include Electricity, Electronics, Radio, Television together with Mathematics and Mechanical Workshop Practice.

A systems approach is used with a strong emphasis on the practical aspects and a restricted use of analysis.

EXAMINATIONS

The Part 1 examination is taken at the end of the first year.

The Part 2 examination (written) together with Practical Test set by the Radio, Television and Electronics Examination Board are taken at the end of the third year.

The Part 3 examination is taken at the end of the fourth year.

An internal College examination is set at the end of the second year of the course.

DEPARTMENT IN CHARGE

Telecommunications Engineering.

Engineering Courses

Marine Radar Maintenance Certificate Course

Ref. WRR

This full-time course is designed to satisfy fully the latest requirements of the syllabus of the Board of Trade for the Marine Radar Maintenance Certificate, and it provides comprehensive coverage of the operation and maintenance of all types of Marine Radar equipment. Two courses are conducted each year, one commencing in September and the other commencing in January/February.

COURSE DURATION

Sixteen weeks: five days per week.

ADMISSION REQUIREMENTS

Prospective students are required to hold the Marine Radiocommunication General Certificate, or show evidence of having an equivalent standard of knowledge in Electricity and Radio Communication.

COURSE

The course provides instruction and practice in the operation and maintenance of Electronics and Radar equipment.

FEE

£40.00 per course.

DEPARTMENT IN CHARGE

Telecommunications Engineering.

Marine Radio-Electronics Officers' Course

Ref. WRO

This wholetime course prepares students at the end of three years of study for the Marine Radiocommunication General Certificate conducted by the Department of Posts and Telegraphs. This Certificate is required for employment as a Radio Officer in the international merchantile

marine services. In addition the course covers the requirements of the Telecommunications Technicians' Certificate Examinations (Course 270/271 Parts I, II) of the City and Guilds of London Institute and students are required to sit these examinations.

COURSE DURATION

Three years: five days per week (including one evening per week during the first year).

MINIMUM QUALIFICATIONS FOR ADMISSION

As stated at (b) in General Entry Requirements on page 18.

COURSE

The course includes Mathematics, Engineering Science, Engineering Drawing, Electricity, Electronics, Radio Communication, Industrial Studies and Social Science.

FEE

£50.00 per academic year.

DEPARTMENT IN CHARGE

Telecommunications Engineering.

Post Office Engineering Technicians' Course

Ref. SRPO

This is a block release course conducted by arrangement with the Department of Posts & Telegraphs providing technical education for the technician trainees of that Department. The scheme has the co-operation of the Irish Post Office Engineering Union.

COURSE DURATION

Three academic years: 10-15 weeks full time (32½ hours per week) in each academic year.

Engineering Courses

ADMISSION REQUIREMENTS

The course is confined to **Technician** Trainees of the Department of Posts & Telegraphs.

COURSE

The course provides instruction in Irish, English, Mathematics, Physics, Electricity, Drawing and Electronics.

FEE

£20.00 per academic year. Trainees from areas outside Dublin City are admitted under special fee arrangements with the Vocational Education Committee of the area concerned.

DEPARTMENT IN CHARGE

Telecommunications Engineering.

COURSES

FOR APPRENTICES AND CRAFTSMEN

Electrical Installation Work

Ref. Block-Release SESB;
Day-Release PEI

These courses provide full technical education for apprentice electricians in their first four years of apprenticeship.

COURSE DURATION

Four years. Block Release, SESB: one term (i.e. 11 weeks of 32½ hours) per year of the course.

Day Release, PEI: one day and three evenings per week. Some fourth-year students attend on one additional day per week. A fifth-year course of further study may be provided for suitable candidates.

ADMISSION REQUIREMENTS

Specified subjects of the Group Certificate or Intermediate Certificate examinations of the Department of Education. Prospective students must be apprentices to the electrical trade.

COURSE

The courses are based on the relevant examination syllabuses of the Department of Education and the City & Guilds of London Institute, and include Mathematics, Engineering Science, Drawing, Electricity, Electrical Installation Theory and Practice, Testing, General Studies and Social Science. Classes in Metalwork, Cable Jointing, etc., are provided for certain groups.

EXAMINATIONS

The Trade and Technical Examinations of the Department of Education and of the City & Guilds of London Institute.

DEPARTMENT IN CHARGE

Electrical Installation.

Electrical Installation and Maintenance

Ref. SEM

This course provides full technical education for apprentice electricians in large industrial concerns.

COURSE DURATION

Four years: Approximately 16 weeks per year.

ADMISSION REQUIREMENTS

Specified subjects of the Group Certificate or Intermediate Certificate examinations of the Department of Education. Prospective students must be apprentices to the Electrical Trade.

COURSE

First and Second Years:

Mathematics, English and General Studies, Drawing, Engineering Science, Workshop Practice, Practical Installation, Electrical Science, Electrical Craft Practice, Workshop Technology, Social Science.

Third Year: Mathematics, English and General Studies, Planning of Electrical Installations, Practical Installation, Electrical Workshop Projects, Electrical Science, Electrical Craft Practice, Tutorial, Social Science.

Fourth Year: Mathematics, General Studies, Planning of Electrical Installations, Electrical Workshop Projects, Electrical Science, Electrical Craft Practice, Tutorial, Social Science.

EXAMINATIONS

Department of Education—Trade and Technical Examinations: City & Guilds of

Courses for Apprentices and Craftsmen

London Institute—Course B and C
Certificate Examinations.

DEPARTMENT IN CHARGE
Electrical Installation.

Electrical Installation Work Ref. BESB

This Course provides technical and general education for apprentice electricians during the first three years of apprenticeship. Practical training is provided at an approved training centre.

COURSE DURATION

Three years. Block Release, one term of 11 weeks duration in each year of the course.

ADMISSION REQUIREMENTS

Employment as an apprentice electrician and approved arrangements with a training centre.

COURSE

The course is based on the relevant written examination syllabuses of the Department of Education and the City and Guilds of London Institute and includes Mathematics, Electrical Science, Electrical Craft Theory, Drawing, General Studies and Social Science. No workshop classes are provided.

EXAMINATIONS

The Electrical Trade and Technical Examinations of the Department of Education and the City and Guilds of London Institute.

DEPARTMENT IN CHARGE
Electrical Installation.

Electrical Installation Work Ref. SEAS

This Course provides technical and general education for apprentice electricians during the first three years of apprenticeship. Practical training is provided at an appropriate training centre.

COURSE DURATION

Three years: Two days per week.

ADMISSION REQUIREMENTS

Employment as an apprentice electrician and approved arrangements with a recognised training centre.

COURSE

The course is based on the relevant written examination syllabuses of the Department of Education and the City & Guilds of London Institute, and include Mathematics, Engineering Science, Drawing, Electrical Science, Electrical Craft Theory, General Studies and Social Science. No workshop classes are provided.

EXAMINATIONS

The Electrical Trade and Technical Examinations of the Department of Education and the City & Guilds of London Institute.

DEPARTMENT IN CHARGE
Electrical Installation.

Evening Course for Personnel in the Electrical Industry Ref. T1. 1/2/3/4

Courses for Apprentices and Craftsmen

A course in Applied Electricity and related Sciences. The last two years (T1.3 & T1.4) of the course are designed to assist apprentices in preparing for the Senior Trade Certificate examination of the Department of Education and the "B" and "C" Certificate examinations of the City and Guilds of London Institute.

COURSE DURATION

Four years: four evenings per week.

ADMISSION REQUIREMENTS

Prospective students must be in employment in some branch of the electrical industry. Applicants for the first year, T1.1, may be required to sit an entrance examination and for other years of the course applicants must satisfy the College that they have an acceptable knowledge of the matter covered in the years of the course preceding that for which they apply.

COURSE

Mathematics, Electrical Craft Practice, Electrical Science and Technical Drawing.

EXAMINATIONS

The appropriate Trade and Technical examinations of the Department of Education and the City & Guilds of London Institute.

FEE

£19.00 per academic year.

DEPARTMENT IN CHARGE

Electrical Installation.

Cable Jointing

Ref. T2.1

A course for electricians or apprentice electricians who wish to become proficient in the skills required in jointing underground cables.

COURSE DURATION

Two years: two evenings per week.

ADMISSION REQUIREMENTS

Prospective students must have passed the Junior Trade Certificate examinations of the Department of Education or have an equivalent qualification, and must satisfy the College that proficiency in Cable Jointing is required in their employment.

COURSE

Both the theory and practice of the techniques are covered.

FEE

£20.00 per academic year.

DEPARTMENT IN CHARGE

Electrical Installation.

Electrical Technicians' Certificate (Part III) City and Guilds of London Institute

Ref. T3.1/2

This course is designed to prepare students for the Electrical Technicians' Certificate Part III examination of the City & Guilds of London Institute.

COURSE DURATION

Two years: two evenings per week.

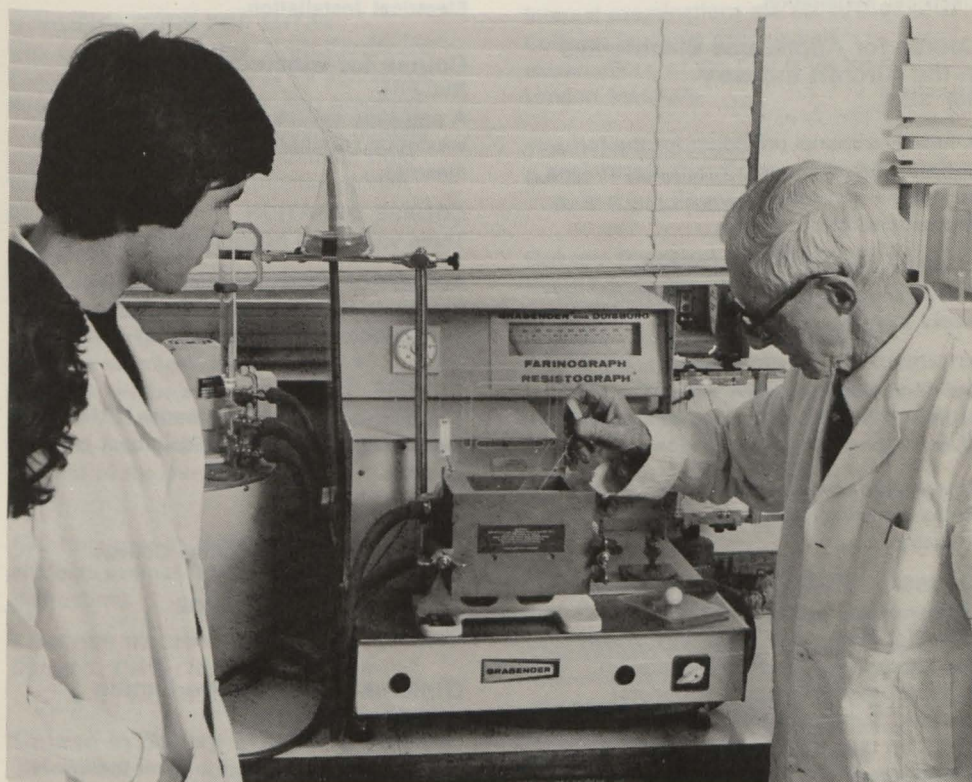
ADMISSION REQUIREMENTS

Prospective students must have obtained a pass in the Electrical Technicians' Certificate Part II examination of the City & Guilds of London Institute

COURSE

Transmission and Distribution of Electrical Energy, Utilisation of Electrical Energy.

BAKERY



Courses for Apprentices and Craftsmen

EXAMINATIONS

Examination in Utilisation of Electrical Energy will be taken at the end of the first year. Examination in Transmission and Distribution of Electrical Energy at the end of second year.

FEE

£19.00 per academic year.

DEPARTMENT IN CHARGE

Electrical Installation.

Course for Apprentice Electricians in the Aircraft Industry

Ref. SEAL

A full-time course providing for the full technical education of aircraft electricians during the first three years of apprenticeship.

COURSE DURATION

Three years: 35-37 weeks (32½ hours per week) each course year.

ADMISSION REQUIREMENTS

Specified subjects in the Group Certificate or Intermediate Certificate examinations of the Department of Education.

Prospective students must be apprenticed to the electrical trade in the aircraft industry.

COURSE

Mathematics, Engineering Science, Drawing, Metalwork, Electricity Theory and Laboratory, Practical Installation, Aircraft Electrical Practice, General Studies, Social Science. The course is based on the relevant examination syllabuses of the Department of Education, the Department of Transport and Power (Civil Aviation) and the City & Guilds of London Institute.

EXAMINATIONS

Trade and Technical Examinations of the Department of Education and City & Guilds of London Institute, and the Licence examinations of the Department of Transport and Power.

FEE

£40.00 per academic year.

DEPARTMENT IN CHARGE

Electrical Installation.

Course for Cinema Apprentices

Ref. PRC

A part-time course providing technical education for apprentice projectionists in cinemas.

COURSE DURATION

Three years: five hours per week.

ADMISSION REQUIREMENTS

Prospective students must be employed as apprentice cinema operators.

COURSE

The course covers Mathematics, Science, Electricity, Light, Sound Equipment and English.

EXAMINATIONS

Examinations are set by the College.

DEPARTMENT IN CHARGE

Electrical Installation.

Diploma in Bakery Production and Management

Ref. WBT

This course is intended to meet the needs of students who wish to attain supervisory status or a position of responsibility in a large or small business

Courses for Apprentices and Craftsmen

where an understanding of the scientific principles involved, coupled with a wide knowledge of the bakery industry, would be useful.

DURATION

Twenty weeks full-time attendance at the College each year for three years. When not attending the College the student is expected to be in employment in the bakery industry.

QUALIFICATIONS FOR ENTRY

City & Guilds Advanced Craft Certificate; Pass Leaving Certificate or its equivalent, with a minimum of six months practical experience in a bakery. Students holding craft certificates will be exempted from the practical bakery instruction portion of the course.

EXAMINATIONS

The College Diploma will be awarded to those students who complete the course in a satisfactory manner and pass the required examinations. In addition students will be encouraged to sit for The City and Guilds of London Institute Full Technological Certificate at the end of the third year.

FEE

£30 (this may be reduced to £20 for students exempt from practical instruction).

TEACHER IN CHARGE

Daniel T. Carey, N.B.Dip., Tech.Dip.
C. & G., M.I.I.B.

Course in Bakery Practice

Ref. PSB

A part-time course in Breadmaking and Flour Confectionery for Bakery Apprentices.

COURSE DURATION

Four years: one day and two evenings per week.

ADMISSION REQUIREMENTS

Prospective students must be apprentices to the Breadmaking and Flour Confectionery Trades.

COURSE

Instruction is given in Bakery Science and Bakery Practice, English and Social Science.

EXAMINATIONS

Internal examinations are set by the College. Students may also sit examinations of the City & Guilds of London Institute.

TEACHER IN CHARGE

Daniel T. Carey, N.B.Dip., Tech.Dip.
C. & G., M.I.I.B.

Bakery Practice (Journeyman) Ref. B1.1

This is a one-year evening course in Bakery Practice especially for journeyment in the Bakery Trades. Attendance is required on one evening per week.

FEE

£12.00 per academic year.

Confectionery Decoration

Ref. B1.2 and B1.3

This evening course comprises a one-year Intermediate course (Ref. B1.2) and a one-year Advanced Course (Ref. B1.3) in Design, Icing and Piping. Attendance is required on one evening per week. Students must be employed in an appropriate bakery trade. Examinations may be taken at the end of each year.

FEE

£12.00 per academic year.

COURSES IN PHYSICAL EDUCATION

PHYSICAL EDUCATION

These courses are designed to cater for the recreational activities of the students

Swimming.
Life Saving.
Sub Aqua.
Water Polo.
Gymnastics.
Badminton.
Fencing.
Judo.
Golf Tuition.
Basketball.
Trampolining.

and staff of the College and will include the following activities:

Volley Ball.
Indoor Football.
Soccer.
Gaelic Games.
Rugby.
Hockey (Ladies).
Hockey (Mixed).
Orienteering.
First Aid.
Referees' Courses.
Lectures in P.E.

SPECIAL COURSES

IN ENGINEERING AND SCIENCE

The College is prepared, subject to availability of accommodation and sufficient demand, to provide short courses of lectures on topics of Engineering or Scientific interest during the session 1978/79. These courses would normally be conducted in the evenings. Such courses that have been provided in previous years include:

ELECTRONICS FOR ENGINEERS (two parts, 20 lectures each).

MATHEMATICS FOR ELECTRICAL ENGINEERS (10 lectures).

ELECTRONICS FOR CHEMISTS (10 lectures).

CHROMATOGRAPHY (6 lectures).

INSTRUMENTAL ANALYSIS (8 lectures).

STATISTICS FOR ENGINEERS AND SCIENTISTS (20 lectures).

CHEMISTRY IN THE FOOD INDUSTRY (8 lectures).

INDUSTRIAL FOOD PROCESSING (10 full days).

The College would welcome suggestions for other courses of this kind, and those interested should communicate with the Principal.

REGULATIONS OF THE COLLEGE EXECUTIVE BOARD GOVERNING COLLEGE DIPLOMA EXAMINATIONS

1. Examinations for diplomas shall be set, marked, organised and conducted in such a manner as may be decided by the Executive Board of the College.

2. Examination results shall be determined by the Executive Board whose decision shall be final. In arriving at its decisions the Board shall consult with the external examiners (if any), and the College examiners in the subject of the examination, and such other persons, in particular the teachers concerned with the course, as they may think necessary. The Executive Board, together with the external examiners, will constitute the Examination Board for the course.

3. In arriving at its decisions the Executive Board may consider not only the examination performance of the student, but also such other matters as it may consider to be relevant to the correct assessment of the students academic progress and ability.

4. The Executive Board may at its discretion, require any student to attend an interview in connection with the examination.

5. In no case shall examination markings be either published or provided individually to candidates, nor shall they be supplied to any person other than appropriate members of the academic staff of the College or the College Authorities.

6. The following shall constitute the normal practice of the Board with regard to examinations:—

(a) A student who, at the first sitting (e.g. in the case of sessional examinations, the June sitting) fails to satisfy the Board in not more than two subjects will be required to sit only the subjects concerned in the supplemental sitting.

(b) A student who, at the first sitting, fails to satisfy the Board in more than two subjects will be required to sit the entire supplemental examination.

(c) Failure to sit an examination, except in very special circumstances and at the discretion of the Executive Board will automatically result in failure in the subject or subjects concerned.

(d) Except in very special circumstances and at the discretion of the Executive Board, students will not be permitted to sit supplemental examinations unless they take the first sitting of the examination in its entirety.

(e) When a student fails to satisfy the Executive Board in a supplemental examination he shall not, be eligible, to proceed to the next year of the course. In the case of supplemental examinations, it will be at the discretion of the Executive Board to permit a student to carry not more than one subject from one year to the succeeding year. Where a student is carrying a subject in a particular year of his course he must sit the examination in the carried subject together with the normal examinations of that year. If he fails to satisfy the Executive Board in the carried subject he will be deemed to have failed his previous year examination and his current year examination except it to be the final year examination will be disregarded. In these circumstances, whether, and under what conditions, the student may continue the course, will be determined by the Executive Board on the merits of each case.

(f) In the case of a student whose performance in most subjects is especially satisfactory but who fails to satisfy in not more than one subject, it will be open to the Board to offset the particularly good performance against the deficiency. The Board will have particular regard to the extent of the deficiency and to its significance for the future progress of the student.

7. The Executive Board has no discretion

GENERAL INFORMATION

in the matter of rules determined by the Council of the College and which are stated on Page 13 of this Prospectus. Day classes will normally be held between 9 a.m. and 6 p.m. each weekday except Saturday.

Evening Classes will normally be held from 7 p.m. to 10 p.m.

Office Hours: The Office will be open for enrolment of students from 9.30 a.m. to 12 noon, and 2 p.m. to 4 p.m., Monday to Thursday, Friday 9.30 a.m. to 11.00 a.m. and 3 p.m. to 4 p.m., and at special periods of the year at times which will be posted on the Notice Board.

Interviews with the Principal can be arranged only by appointment.

Except during enrolment periods, members of the teaching staff will not be available for interviews except at times which will be indicated on application to the College Office.

The College Library is normally open between the hours of 9.30 a.m.—9.30 p.m. From the middle of the Second Term it is normally open also from 9.00 a.m.—1.00 p.m. on Saturday mornings.